



January 14, 2002

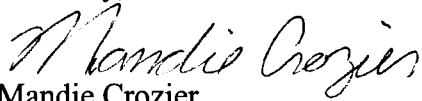
State of Utah  
Division of Oil, Gas & Mining  
Attn: Brad Hill  
1594 West North Temple - Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Applications for Permit to Drill: 9-34-8-17 and 10-34-8-17.

Dear Brad:

Enclosed find APD's on the above referenced wells. If you have any questions, feel free to give either Brad or myself a call.

Sincerely,

  
Mandie Crozier  
Permit Clerk

mc  
enclosures

**RECEIVED**

JAN 14 2002

DIVISION OF  
OIL, GAS AND MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

001

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

|  |                                       |   |               |
|--|---------------------------------------|---|---------------|
| 1a. TYPE OF WORK<br>DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>  |                                       | 5. LEASE DESIGNATION AND SERIAL NO.<br>UTU-76241      |               |
| 1b. TYPE OF WELL<br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/> |                                       | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME<br>N/A           |               |
| 2. NAME OF OPERATOR<br>Inland Production Company   |                                       | 7. UNIT AGREEMENT NAME<br>Greater Boundary            |               |
| 3. ADDRESS OF OPERATOR<br>Route #3 Box 3630, Myton, UT 84052 Phone: (435) 646-3721   |                                       | 8. FARM OR LEASE NAME WELL NO<br>9-34-8-17            |               |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*<br>At Surface NE/SE 1894' FSL 727' FEL 4426074 N 596540 E  |                                       | 9. API WELL NO.                                       |               |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*<br>Approximately 17.6 miles southeast of Myton, Utah   |                                       | 10. FIELD AND POOL OR WILDCAT<br>Monument Butte       |               |
| 15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to<br>Approx. 574' f/lse line & 574' f/unit line   | 16. NO. OF ACRES IN LEASE<br>1,680.00 | 17. NO. OF ACRES ASSIGNED TO THIS WELL<br>40          |               |
| 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.<br>Approx. 1263'  | 19. PROPOSED DEPTH<br>6500'           | 20. ROTARY OR CABLE TOOLS<br>Rotary                   |               |
| 21. ELEVATIONS (Show whether DF, RT, GR, etc.)<br>5050.4' GR   |                                       | 22. APPROX. DATE WORK WILL START*<br>1st Quarter 2002 |               |
| 23. PROPOSED CASING AND CEMENTING PROGRAM  |                                       |   |               |
| SIZE OF HOLE   | SIZE OF CASING                        | WEIGHT/FOOT   | SETTING DEPTH |
| Refer to Monument Butte Field SOP's Drilling Program/Casing Design   |                                       |   |               |
| QUANTITY OF CEMENT   |                                       |   |               |

Inland Production Company proposes to drill this well in accordance with the attached exhibits.

The Conditions of Approval are also attached.

RECEIVED

JAN 15 2002

DIVISION OF  
OIL, GAS AND MINING

Federal Approval of this  
Action is Necessary

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone.  
If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Thomas C. Grier TITLE Permit Clerk DATE 1/14/02

(This space for Federal or State office use)

PERMIT NO. 43-013-32331 APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY Bradley G. Hill TITLE BRADLEY G. HILL DATE 01-23-02  
RECLAMATION SPECIALIST III

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

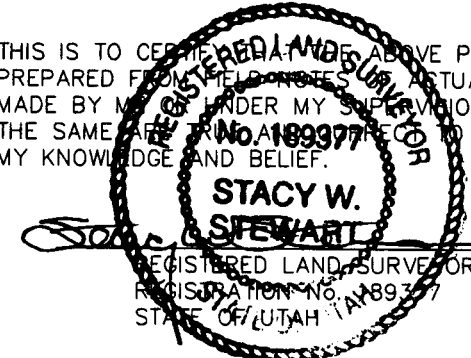
**T8S, R17E, S.L.B.&M.**

**INLAND PRODUCTION COMPANY**

WELL LOCATION, GREATER BOUNDARY  
UNIT #9-34-8-17, LOCATED AS SHOWN  
IN THE NE 1/4 SE 1/4 OF SECTION 34,  
T8S, R17E, S.L.B.&M. DUCHESNE COUNTY,  
UTAH.

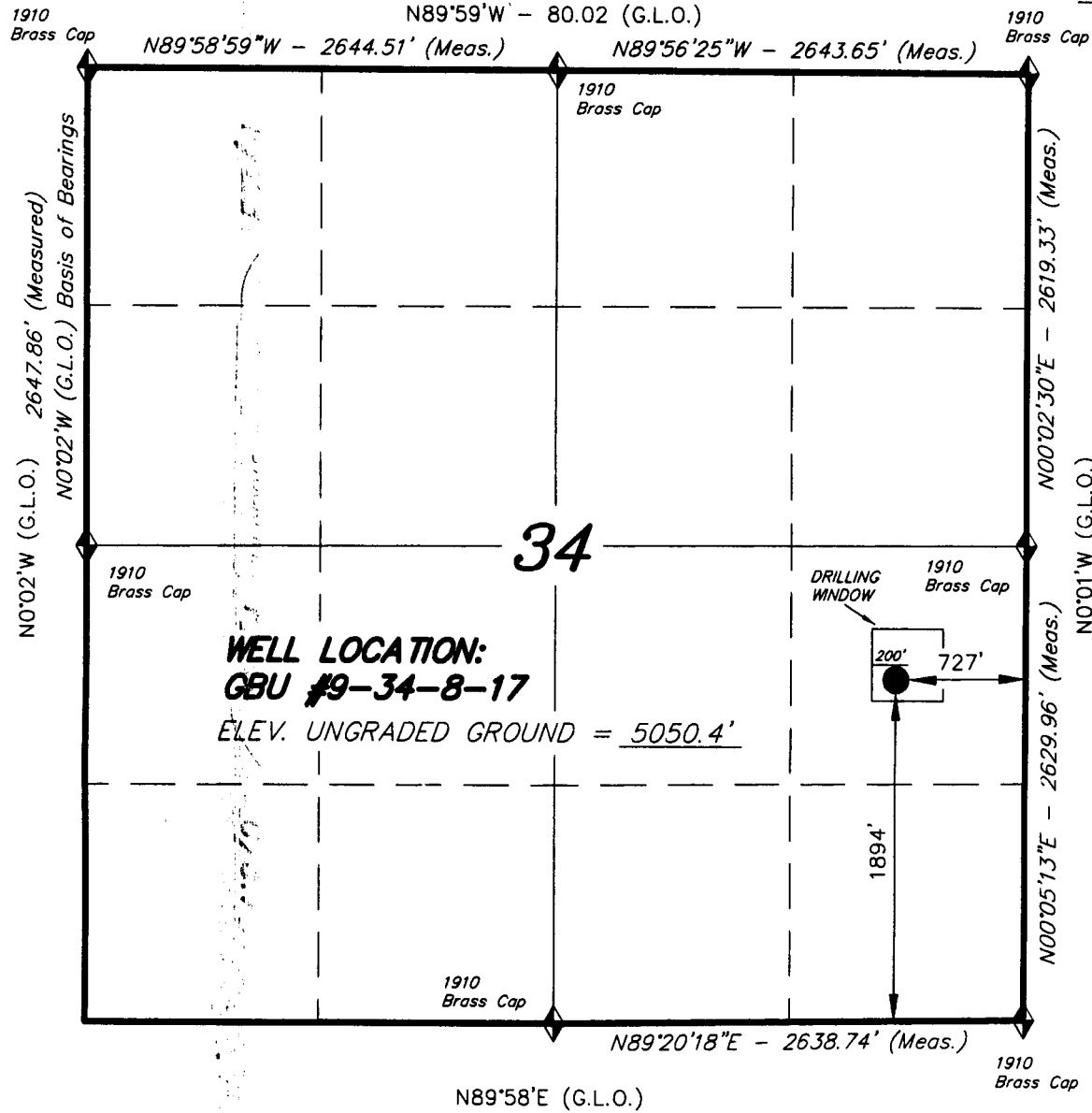


THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF.



**TRI STATE LAND SURVEYING & CONSULTING**  
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

|                   |                            |
|-------------------|----------------------------|
| SCALE: 1" = 1000' | SURVEYED BY: K.G.S. D.J.S. |
| DATE: 11-5-01     | DRAWN BY: J.R.S.           |
| NOTES:            | FILE #                     |



◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW)

Well No.: Greater Boundary 9-34-8-17

**CONDITIONS OF APPROVAL**  
**APPLICATION FOR PERMIT TO DRILL**

Company/Operator: Inland Production Company

Well Name & Number: Greater Boundary 9-34-8-17

API Number:

Lease Number: UTU-76241

Location: NE/SE Sec. 34, T8S R17E

**SURFACE USE PROGRAM**  
**CONDITIONS OF APPROVAL**

**CULTURAL RESOURCES**

See *DIAMOND MOUNTAIN RESOURCE AREA RESOURCE MANAGEMENT PLAN AND RECORD OF DECISION* (Fall 1994).

**PALEONTOLOGICAL RESOURCES**

See *DIAMOND MOUNTAIN RESOURCE AREA RESOURCE MANAGEMENT PLAN AND RECORD OF DECISION* (Fall 1994).

**SOILS, WATERSHEDS, AND FLOODPLAINS**

See *DIAMOND MOUNTAIN RESOURCE AREA RESOURCE MANAGEMENT PLAN AND RECORD OF DECISION* (Fall 1994).

**WILDLIFE AND FISHERIES**

See *DIAMOND MOUNTAIN RESOURCE AREA RESOURCE MANAGEMENT PLAN AND RECORD OF DECISION* (Fall 1994).

**THREATENED, ENDANGERED, AND OTHER SENSITIVE SPECIES**

**A raptor nest site is located within 1-mile from the proposed well location. In the event that this well becomes a producing well, it must be equipped with a multi-cylinder engine or hospital muffler to reduce noise levels.**

**LOCATION AND RESERVE PIT RECLAMATION**

During construction of the reserve pit, a small amount of topsoil shall be stockpiled nearby, to be spread over the reserve pit area at the time the reserve pit is reclaimed.

The topsoil stockpile shall be reseeded immediately after site construction by broadcasting the seed, then walking the topsoil stockpile with the dozer to plant the seed.

The following seed mixture will be used on the topsoil stockpile, the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

|                  |                             |            |
|------------------|-----------------------------|------------|
| Gardner saltbush | <i>Atriplex gardneri</i>    | 4 lbs/acre |
| Mat saltbush     | <i>Atriplex corrugata</i>   | 4 lbs/acre |
| Indian ricegrass | <i>Oryzopsis hymenoides</i> | 4 lbs/acre |

The reserve pit shall be reclaimed immediately after drilling operations have ceased. The pit shall be reclaimed by: 1) removing all liquids and any oily debris according to Utah Division of Oil, Gas, & Mining pit closure rules; 2) perforating and folding the liner in place; 3) recontouring the surface; 4) broadcasting the seed over the recontoured surface; and 5) walking the surface of the pit with a dozer to plant the seed.

At the time of final abandonment, the location and access will be recontoured to natural topography and topsoil spread over the area and the surface seeded immediately.

### **PIPELINES**

Installation of a surface gas pipeline and/or any subsequent buried gas or water pipelines will follow the conditions of approval outlined above.

Except as specified in the APD, the installation of the surface gas line and any subsequent buried pipelines will follow the edge of the existing roadways without interfering with the normal travel and maintenance of the roadway.

The installation of any buried pipelines will disturb as little surface as possible and will not exceed 60 feet in width. Reclamation of the disturbance area associated with buried pipelines will be completed within 10 days after installation. The surface will be recontoured to natural or near natural contours. Reseeding will be with the same seed mixture specified for reclamation of the reserve pit and well site. The interface of the buried line disturbance area and the edge of any adjacent access roads will be constructed with a borrow ditch and road berm to minimize vehicular travel along the water line route.

**INLAND PRODUCTION COMPANY  
GREATER BOUNDARY #9-34-8-17  
NE/SE SECTION 34, T8S, R17E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**DRILLING PROGRAM**

**1. GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

|             |            |
|-------------|------------|
| Uinta       | 0' – 1640' |
| Green River | 1640 '     |
| Wasatch     | 6500'      |

**3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 1640' – 6500' - Oil

**4. PROPOSED CASING PROGRAM**

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

**5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

Please refer to the Monument Butte Field SOP. See Exhibit "C".

**6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

Please refer to the Monument Butte Field SOP.

**7. AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Please refer to the Monument Butte Field SOP.

**8. TESTING, LOGGING AND CORING PROGRAMS:**

Please refer to the Monument Butte Field SOP.

**9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

The anticipated maximum bottom hole pressure is 2000 psi. It is not anticipated that abnormal temperatures will be encountered.

**10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

Please refer to the Monument Butte Field SOP.

**INLAND PRODUCTION COMPANY  
GREATER BOUNDARY #9-34-8-17  
NE/SE SECTION 34, T8S, R17E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Inland Production Company well location site Greater Boundary # 9-34-8-17 located in the NE 1/4 SE 1/4 Section 34, T8S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly along Hwy 53 - 13.9 miles  $\pm$  to its junction with an existing road to the northeast; proceed northeasterly approximately - 2.2 miles  $\pm$  to its junction with an existing road to the northwest; proceed northwesterly approximately - 0.5 miles  $\pm$  to its junction with the beginning of the proposed access road; proceed westerly along the proposed access road 60'  $\pm$  to the proposed well location.

**2. PLANNED ACCESS ROAD**

See Topographic Map "B" for the location of the proposed access road.

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

**5. LOCATION AND TYPE OF WATER SUPPLY**

Please refer to the Monument Butte Field SOP. See Exhibit "A".

**6. SOURCE OF CONSTRUCTION MATERIALS**

Please refer to the Monument Butte Field SOP.

**7. METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

**8. ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management

12. **OTHER ADDITIONAL INFORMATION**

The Paleontological Resource Survey and Archaeological Resource Survey for this area are attached.

Inland Production Company requests a 60' ROW for the Greater Boundary #9-34-8-17 to allow for construction of a 6" gas gathering line, and a 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."**

Inland Production Company also requests a 60' ROW be granted for the Greater Boundary #9-34-8-17 to allow for construction of a 3" steel water injection line and a 3" poly water return line. **Refer to Topographic Map "C."**

**Water Disposal**

Formation water is produced to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Inland's secondary recovery project.

Water not meeting quality criteria, is disposed at Inland's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

13. **LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION**

**Representative**

Name: Mandie Crozier  
Address: Route #3 Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

**Certification**

Please be advised that INLAND PRODUCTION COMPANY is considered to be the operator of well #9-34-8-17 NE/SE Section 34, Township 8S, Range 17E: Lease UTU-76241 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Inland Production Company and its contractors and



subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

1/14/00

Date

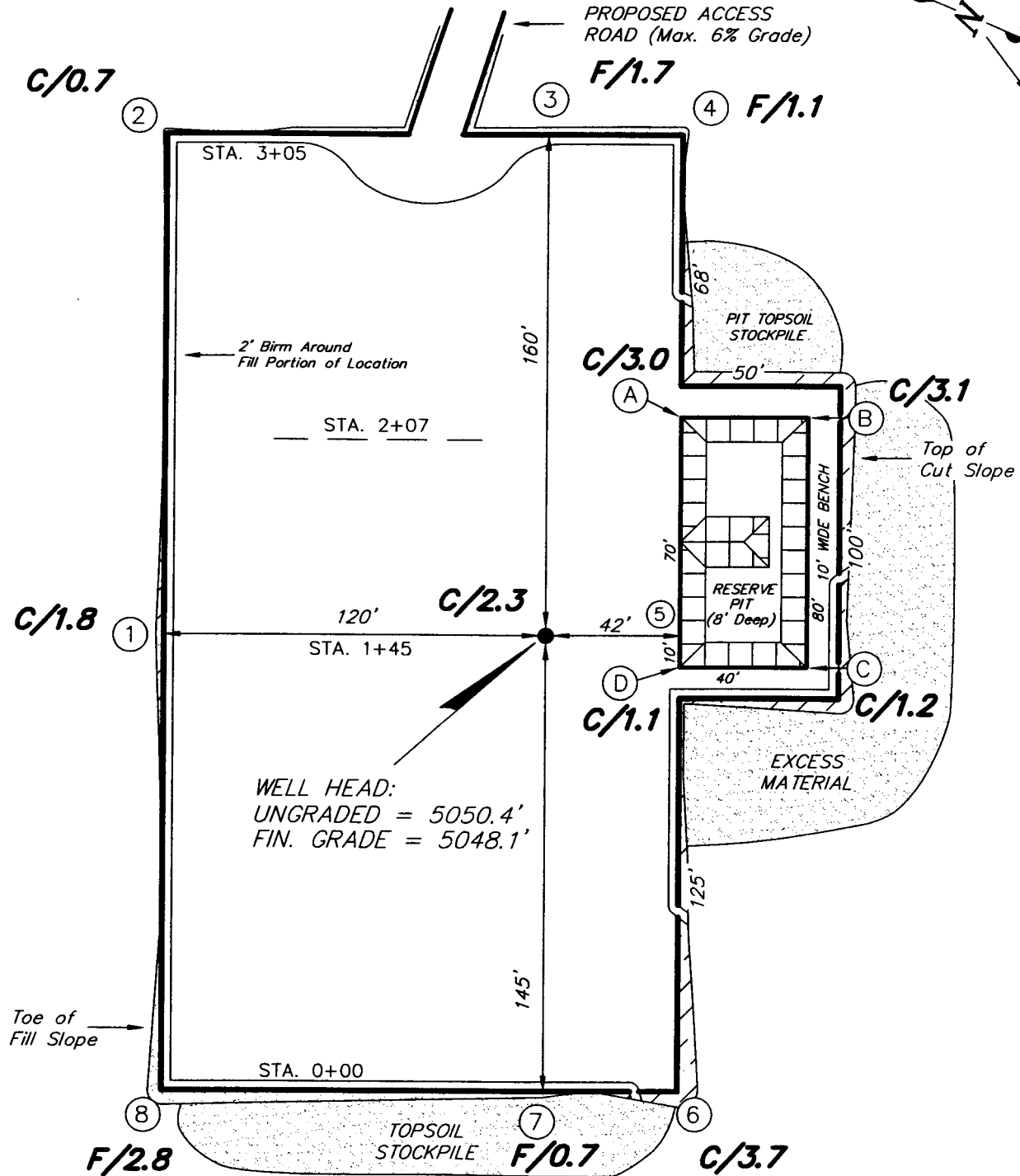
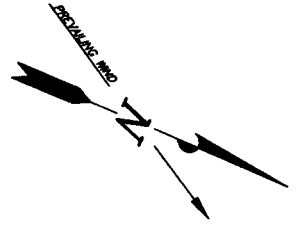
Mandie Crozier

Mandie Crozier  
Permit Clerk

# INLAND PRODUCTION COMPANY

GBU #9-34-8-17  
SEC. 34, T8S, R17E, S.L.B.&M.

PROPOSED ACCESS  
ROAD (Max. 6% Grade)



## REFERENCE POINTS

195' EAST = 5047.0'  
245' EAST = 5044.1'  
170' SOUTH = 5047.1'  
220' SOUTH = 5044.5'

SURVEYED BY: D.J.S.

SCALE: 1" = 50'

DRAWN BY: J.R.S.

DATE: 11-5-01

Tri State  
Land Surveying, Inc.

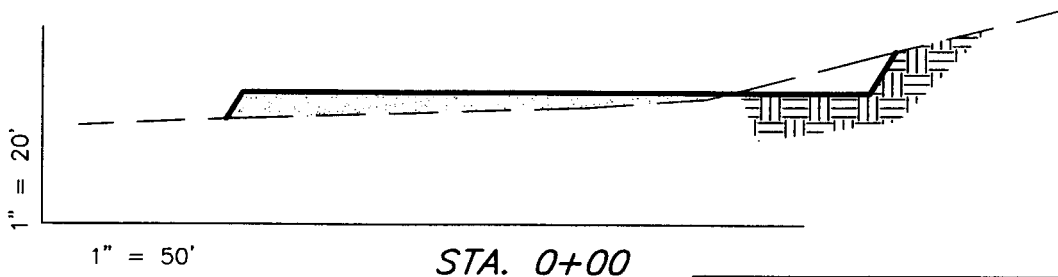
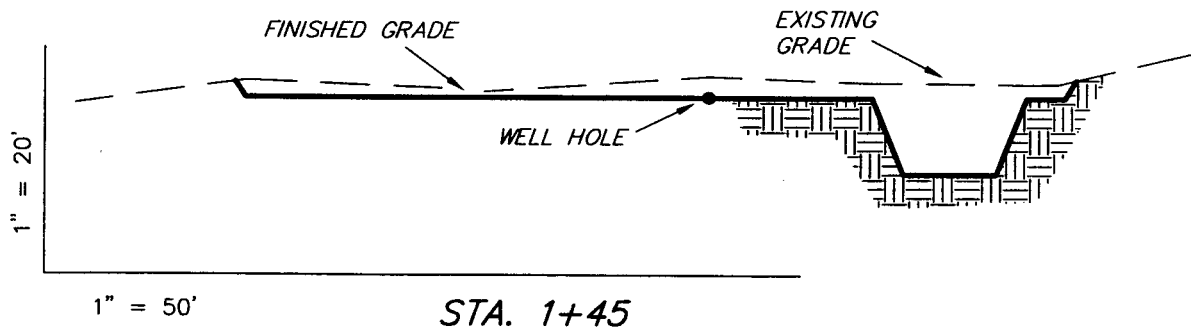
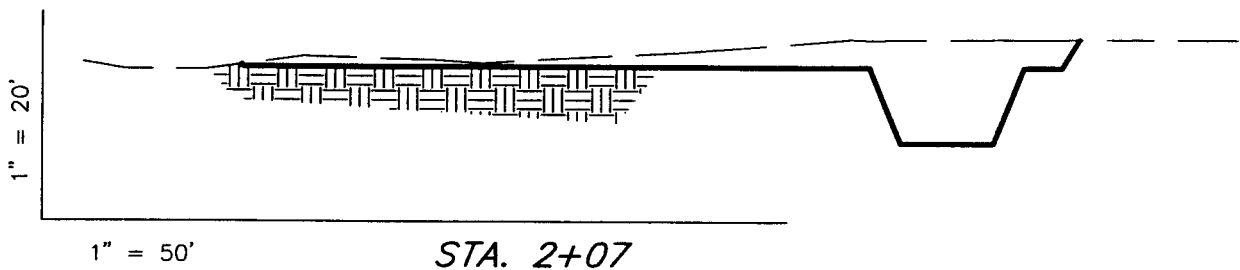
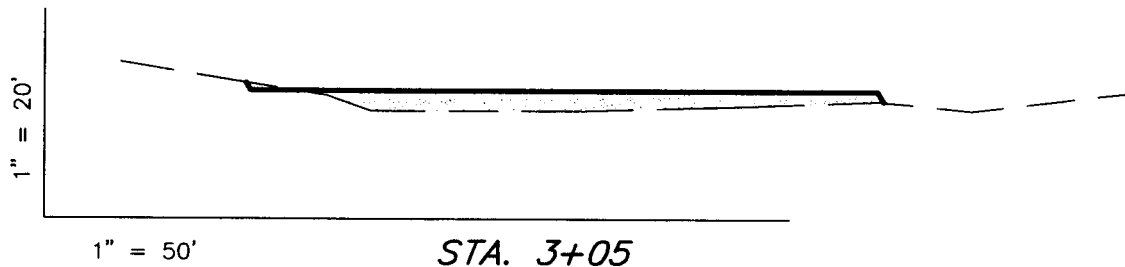
(435) 781-2501

38 WEST 100 NORTH VERNAL, UTAH 84078

# INLAND PRODUCTION COMPANY

## CROSS SECTIONS

GBU #9-34-8-17



NOTE:  
UNLESS OTHERWISE NOTED  
ALL CUT/FILL SLOPES ARE  
AT 1.5:1

### ESTIMATED EARTHWORK QUANTITIES

(Expressed in Cubic Yards)

| ITEM   | CUT   | FILL  | 6" TOPSOIL                               | EXCESS |
|--------|-------|-------|--|--------|
| PAD    | 1,120 | 1,120 | Topsoil is<br>not included<br>in Pad Cut | 0      |
| PIT    | 640   | 0     |  | 640    |
| TOTALS | 1,760 | 1,120 | 1,010                                    | 640    |

SURVEYED BY: D.J.S.

SCALE: 1" = 50'

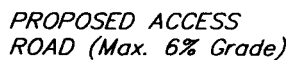
DRAWN BY: J.R.S.


DATE: 11-5-01

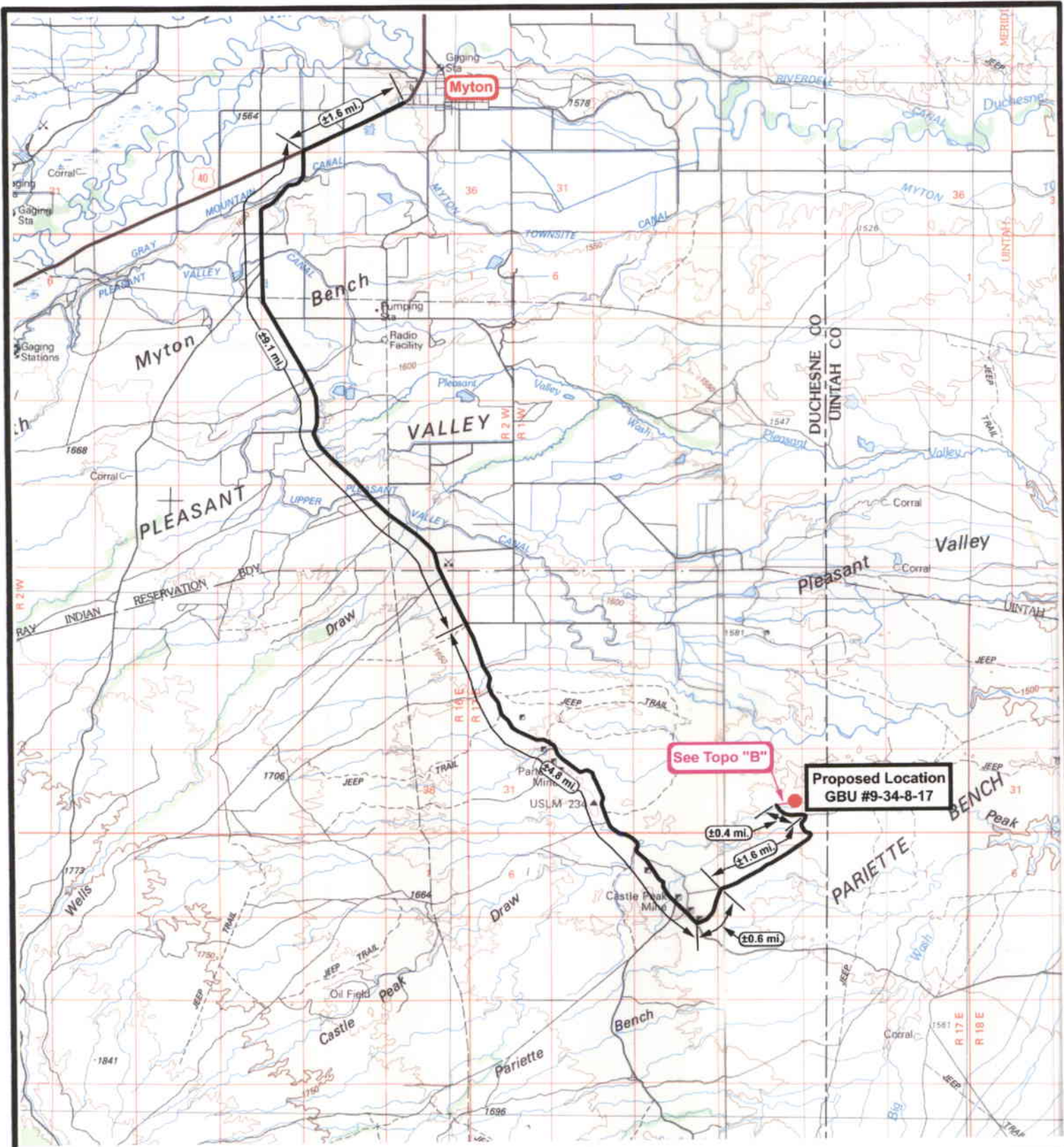
**Tri State**  
Land Surveying, Inc.  
38 WEST 100 NORTH VERNAL, UTAH 84078

(435) 781-2501

*GBU #9-34-8-17*



|                     |                 |  |                |
|---------------------|-----------------|--|----------------|
| SURVEYED BY: D.J.S. | SCALE: 1" = 50' |  <b>Tri State</b><br>Land Surveying, Inc.<br>38 WEST 100 NORTH VERNAL, UTAH 84078 | (435) 781-2501 |
| DRAWN BY: J.R.S.    | DATE: 11-5-01   |  |                |



**Greater Boundary Unit #9-34-8-17**  
**SEC. 34, T8S, R17E, S.L.B.&M.**



**Tri-State**  
*Land Surveying Inc.*  
 (435) 781-2501  
 38 West 100 North Vernal, Utah 84078

SCALE: 1 : 100,000  
 DRAWN BY: D.J.  
 DATE: 11-06-2001

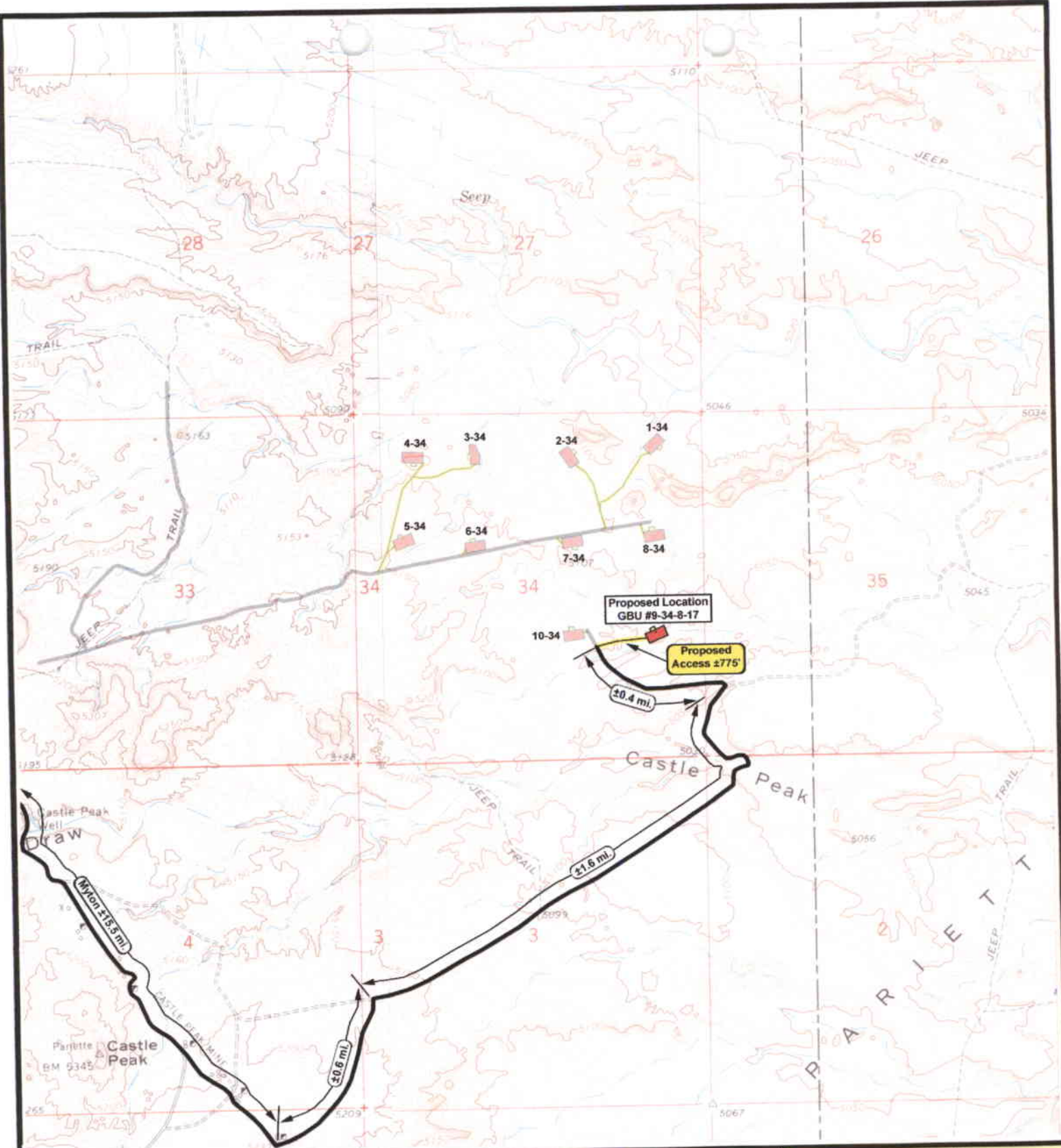
**Legend**

— Existing Road  
 — Proposed Access

TOPOGRAPHIC MAP

**"A"**





RESOURCES INC.

**Greater Boundary Unit #9-34-8-17**  
**SEC. 34, T8S, R17E, S.L.B.&M.**



**Tri-State**  
*Land Surveying Inc.*  
 (435) 781-2501

38 West 100 North Vernal, Utah 84078

SCALE: 1" = 2000'

DRAWN BY: D.J.

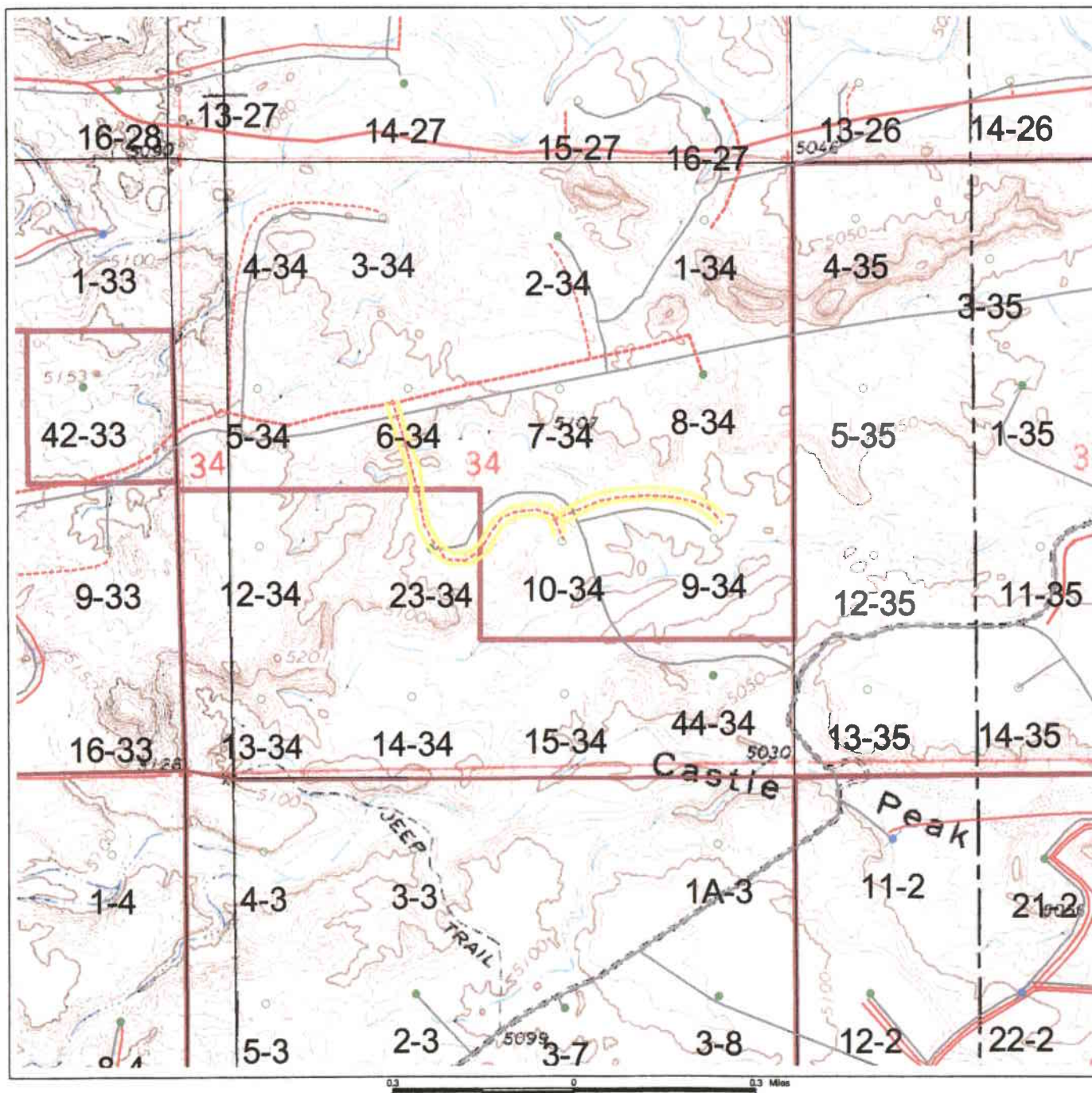
DATE: 11-06-2001

### Legend

— Existing Road  
 — Proposed Access

TOPOGRAPHIC MAP

**"B"**



#### Gas Pipelines

- 10"
- 6"
- 6" proposed
- 4"
- 4" proposed

#### Roads (Digitized)

- Paved
- Dirt
- Proposed
- Two Track
- Private

#### Unit Sections

- Existing Units
- Proposed Units

N



410 1<sup>st</sup> Street Suite 700  
 Denver, Colorado 80202  
 Phone: (303) 893 0102

#### Gas Pipeline Map

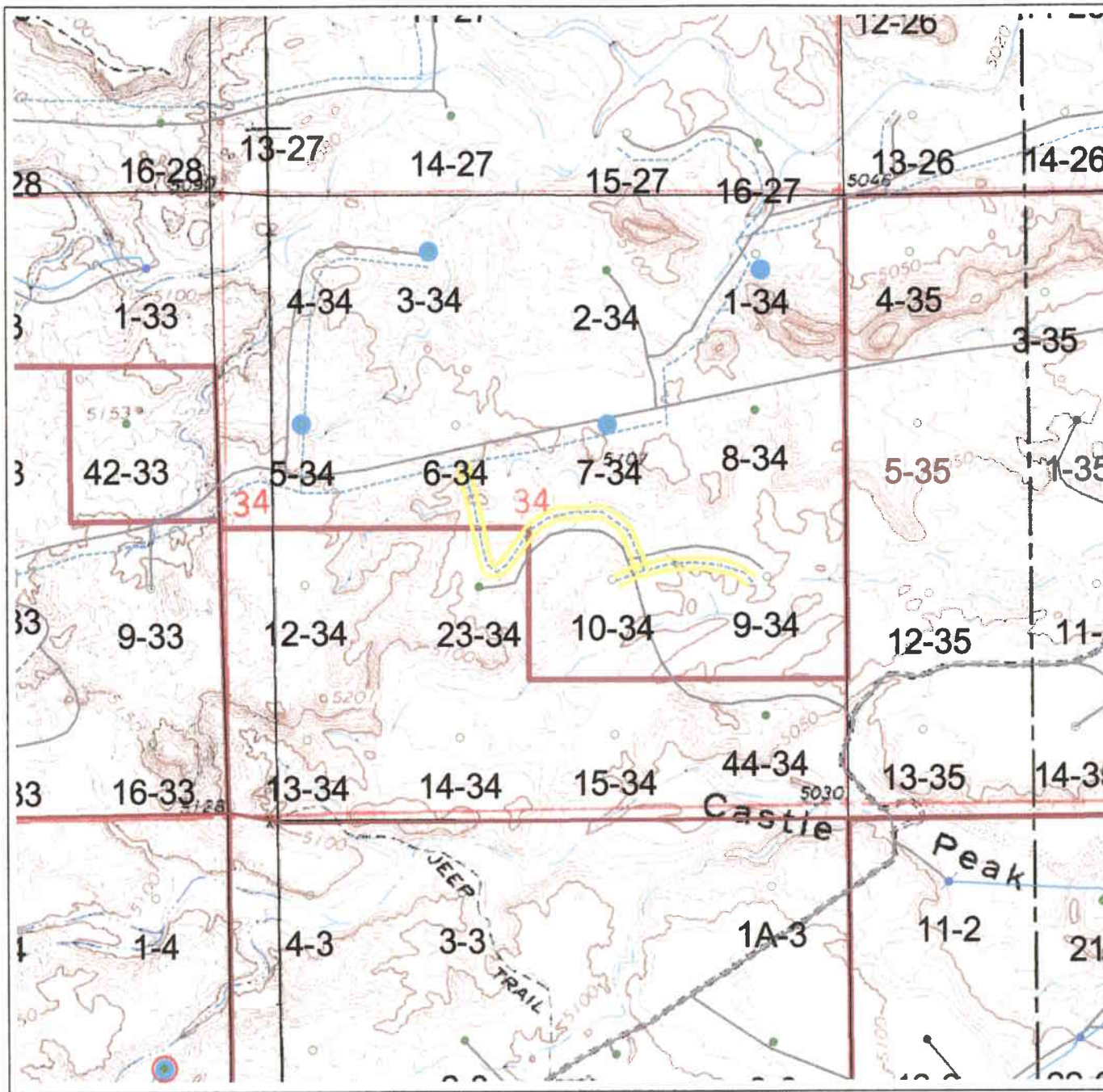
UINTA BASIN, UTAH

Duchesne & Uintah Counties, Utah

D.C. Chaplin


January 11, 2002





- Water Taps
- Pending Waterline ROW
- Approved Waterline ROW
- Water Injection Permit Pending
- Approved Water Injection Permit
- Water 6 inch
- Water 4 inch
- Water 4 inch - High Pressure
- Water 4 inch Poly
- Water 2 to 3 inch
- Proposed Water
- Injection Stations
- Pump Stations
- Roads (Digitized)
- Paved
- Dirt
- Proposed
- Two Track
- Private
- Johnson Water Line
- Unit Sections
- Existing Units
- Proposed Units





420 17<sup>th</sup> Street Suite 700  
 Denver, Colorado 80202  
 Phone: (303) 895-0102

**Water Pipeline Map**

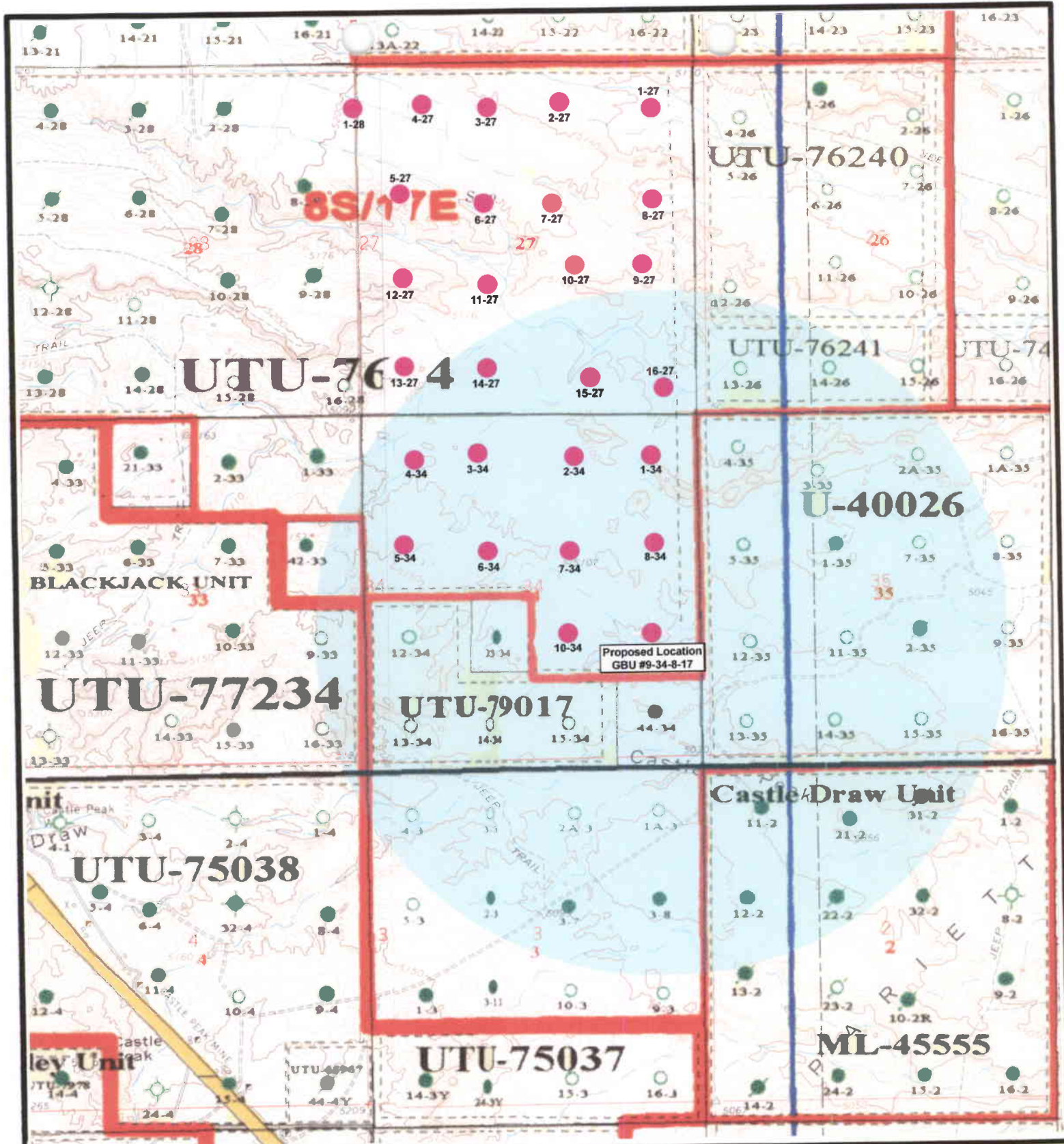
UINTA BASIN, UTAH

Duchesne & Uintah Counties, Utah

D.C. Ogden

January 11, 2002





**Greater Boundary Unit #9-34-8-17  
SEC. 34, T8S, R17E, S.L.B.&M.**



**Tri-State  
Land Surveying Inc.**  
(435) 781-2501

38 West 100 North Vernal, Utah 84078

SCALE: 1" = 2000'

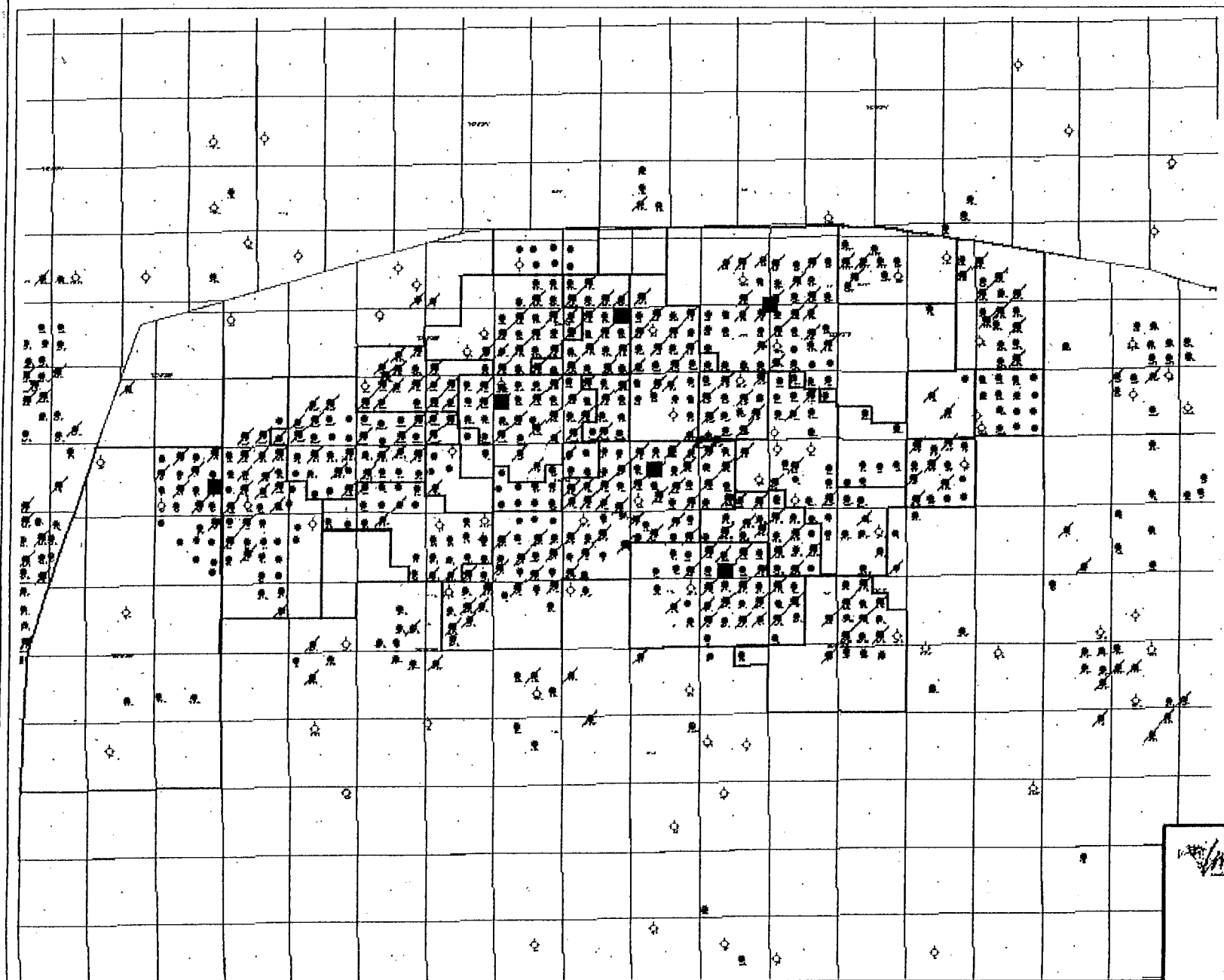
DRAWN BY: D.J.

DATE: 11-06-2001

**Legend**

- Proposed Locations
- One Mile Radius


**Exhibit  
"B"**



- Section Station  
 Map Categories  
 / INJ  
 • OIL  
 ◇ DRY  
 / SHUTIN  
 □ URB



Exhibit "A"


 4301 W. 9th, Suite 700  
 Denver, Colorado 80202  
 Phone: (303) 833-1423

Uinta Basin  
 UTAH BASIN, UTAH  
 Butcher & Church Counties, UT

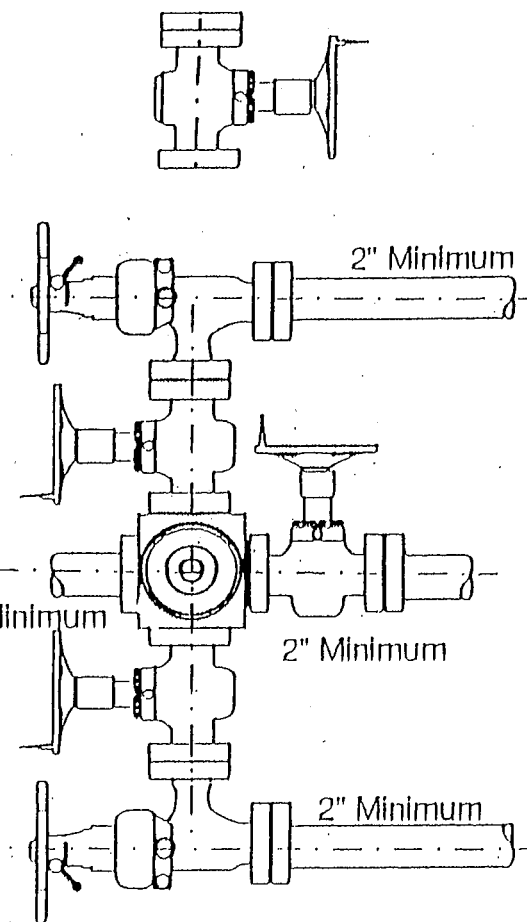
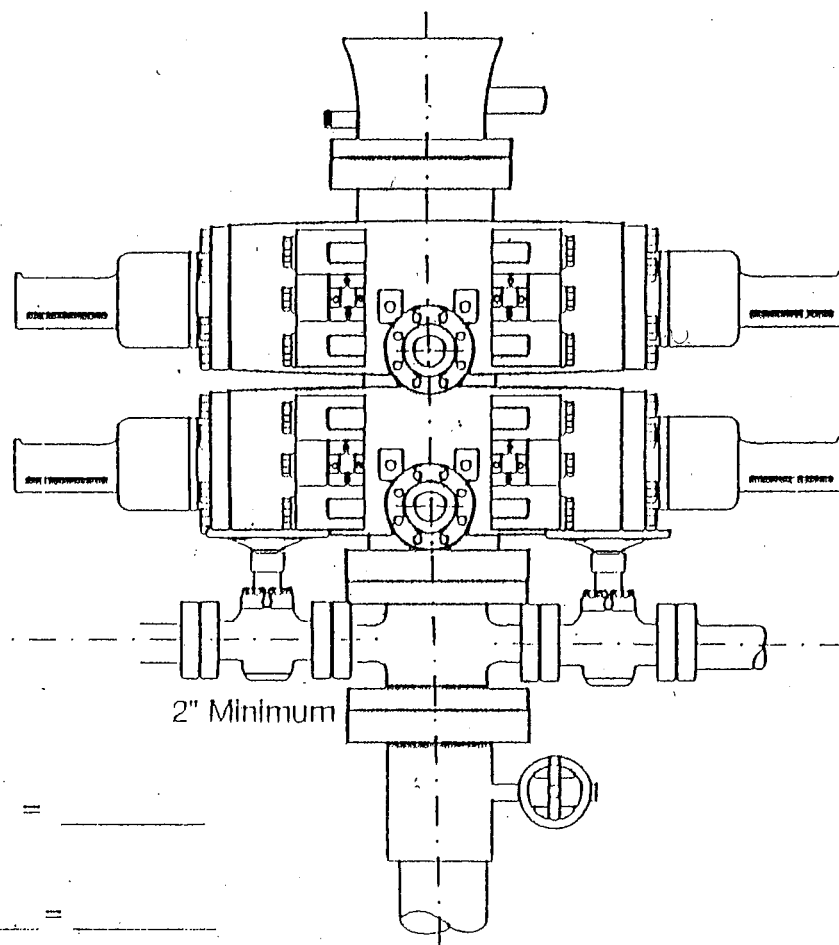
Scale 10,000  
 W. J. Cooper

1 0 1 Miles

RAM TYPE D.O.P.  
 Make:  
 Size:  
 Model:

# 2-M SYSTEM

EXHIBIT "C"



GAL TO CLOSE  
 Annular BOP = \_\_\_\_\_  
 Ramtype BOP  
 \_\_\_\_\_ Rams x \_\_\_\_\_ = \_\_\_\_\_  
 = \_\_\_\_\_ Gal.  
 \_\_\_\_\_ x 2 = \_\_\_\_\_ Total Gal.

Rounding off to the next higher  
 increment of 10 gal. would require  
 \_\_\_\_\_ Gal. (total fluid & nitro volume)

002

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 01/15/2002

API NO. ASSIGNED: 43-013-32331

WELL NAME: GB 9-34-8-17

OPERATOR: INLAND PRODUCTION ( N5160 )

CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

## PROPOSED LOCATION:

NESE 34 080S 170E

SURFACE: 1894 FSL 0727 FEL

BOTTOM: 1894 FSL 0727 FEL

DUCHESNE

MONUMENT BUTTE ( 105 )

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-76241

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV

INSPECT LOCATN BY: / /

| Tech Review | Initials | Date |
|-------------|----------|------|
| Engineering |          |      |
| Geology     |          |      |
| Surface     |          |      |

## RECEIVED AND/OR REVIEWED:

☒ Plat☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. 4488944 )☒ Potash (Y/N)☒ Oil Shale 190-5 (B) or 190-3 or 190-13☒ Water Permit  
(No. MUNICIPAL )☒ RDCC Review (Y/N)  
(Date: )☒ Fee Surf Agreement (Y/N)

## LOCATION AND SITING:

☐ R649-2-3. Unit GREATER BOUNDARY☐ R649-3-2. General

Siting: 460 From Qtr/Qtr &amp; 920' Between Wells

☐ R649-3-3. Exception☒ Drilling Unit

Board Cause No: 225-2

Eff Date: 4-8-98

Siting: \*Suspend Gen. Siting

☐ R649-3-11. Directional Drill

## COMMENTS:

mon. Butte Field Sol, separate f.l.

## STIPULATIONS:

1-Fed. Approval



COUNTY: DUCHESNE UNIT: GREATER BOUNDARY  
CAUSE: 225-2





# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:  
3160  
(UT-922)

January 22, 2002

### Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2002 Plan of Development Greater Boundary  
Unit Duchesne County, Utah.

Pursuant to email between Lisha Cordova, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management. The following wells are planned for calendar year 2002 within the Greater Boundary Unit, Duchesne County, Utah.

(Proposed PZ Green River)

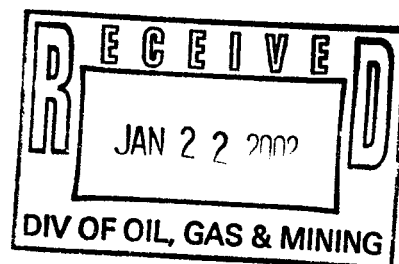
43-013-32331 GS 09-34-8-17 Sec. 34, T8S, R17E 1894 F&L 0727 FEL  
43-013-32332 GS 10-34-8-17 Sec. 34, T8S, R17E 1918 F&L 1966 FEL

This office has no objection to permitting the well at this time.

/s/ Michael L. Coulthard

bcc: File - Greater Boundary  
Division of Oil Gas and Mining  
Agr. Sec. Chron  
Fluid Chron

Mcoulthard:mc:1-22-02



003



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Kathleen Clarke  
Executive Director

Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

January 23, 2002

Inland Production Company  
Route 3 Box 3630  
Myton UT 84052

Re: Greater Boundary 9-34-8-17 Well, 1894' FSL, 727' FEL, NE SE, Sec. 34, T. 8 South,  
R. 17 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-32331.

Sincerely,

A handwritten signature in black ink, appearing to read 'J. R. Baza'.

John R. Baza  
Associate Director

er

Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal District Office

**Operator:** Inland Production Company

**Well Name & Number** Greater Boundary 9-34-8-17

**API Number:** 43-013-32331

**Lease:** UTU-76241

**Location:** NE SE      **Sec.** 34      **T.** 8 South      **R.** 17 East

### **Conditions of Approval**

**1. General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**2. Notification Requirements**

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

**3. Reporting Requirements**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

**4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.**



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**004 SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

**UTU-76241**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**GREATER BOUNDARY**

8. Well Name and No.

**GREATER BOUNDARY 9-34-8-17**

9. API Well No.

**43-013-32331**

10. Field and Pool, or Exploratory Area

11. County or Parish, State

**DUCHESNE COUNTY, UTA**

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**1894 FSL 727 FEL NE/SE Section 34, T8S R17E**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

**TYPE OF SUBMISSION**

☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

**TYPE OF ACTION**

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **Permit Extension**

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Inland Production Company requests to extend the permit to drill this well for one year.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 01-06-03  
By: [Signature]

RECEIVED

DEC 31 2002

DIV. OF OIL, GAS & MINING

COPY SENT TO OPERATOR  
Date: 01-08-03  
Initials: CHD

14. I hereby certify that the foregoing is true and correct

Signed Mandie Crozier Title Permit Clerk Date 12/30/02  
Mandie Crozier

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

CC: Utah DOGM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

005

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL ☒ DEEPEN ☐  
1b. TYPE OF WELL  
OIL GAS SINGLE MULTIPLE  
WELL ☒ WELL ☐ OTHER ☐ ZONE ☒ ZONE ☐

2. NAME OF OPERATOR  
Inland Production Company

3. ADDRESS OF OPERATOR

Route #3 Box 3630, Myton, UT 84052

Phone: (435) 646-3721

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At Surface NE/SE 1894' FSL 727' FEL

At proposed Prod. Zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
Approximately 17.6 miles southeast of Myton, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY  
OR LEASE LINE, FT. (Also to

Approx. 574' f/lse line & 574' f/unit line

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL,  
DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.

Approx. 1263'

16. NO. OF ACRES IN LEASE

1,680.00

17. NO. OF ACRES ASSIGNED TO THIS WELL

40

19. PROPOSED DEPTH

6500'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5050.4' GR

22. APPROX. DATE WORK WILL START\*

1st Quarter 2002

23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT/FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-------------|---------------|--------------------|
|--------------|----------------|-------------|---------------|--------------------|

Refer to Monument Butte Field SOP's Drilling Program/Casing Design

Inland Production Company proposes to drill this well in accordance with the attached exhibits.

The Conditions of Approval are also attached.

RECEIVED

MAR 11 2003

DIV. OF OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone.

If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Markie Crozier TITLE Permit Clerk DATE 1/14/03

(This space for Federal or State office use)

NOTICE OF APPROVAL

APPROVAL DATE

CONDITIONS OF APPROVAL ATTACHED

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

Howard B. Cleavage

Assistant Field Manager  
Mineral Resources

DATE

03/05/2003

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UDOGM

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company.

Well Name & Number: GB 9-34-8-17

Lease Number: U-76241

API Number: 43-013-32331

Location: NESE Sec. 34 T. 8S R. 17E

Agreement: Greater Boundary (GR) SR

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

### **CONDITIONS OF APPROVAL FOR NOTICE TO DRILL**

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease that would entitle the applicant to conduct operations therein.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

The proposed location is approximately 0.65 miles southwest of the projected trend the April Gilsonite vein. If encountered during drilling operations, the gilsonite could cause severe drilling difficulties. The area also contains several east-west trending normal faults that are associated with the Duchesne fault zone.

In the event after-hours approvals are necessary, you must contact one of the following individuals:

Ed Forsman                   (435) 828-7874  
Petroleum Engineer

Kirk Fleetwood           (435) 828-7875  
Petroleum Engineer

BLM FAX Machine   (435) 781-4410

**THERE ARE NO ADDITIONAL CONDITIONS FOR THE SURFACE USE PROGRAM.**



January 2, 2004

State of Utah  
Division of Oil, Gas & Mining  
Attn: Diana Whitney  
1594 West North Temple - Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: One Year Extensions on Applications for Permit to Drill

Dear Diana:

Enclosed find one year extensions on Applications for Permit to Drill. We have already received a one year extension on these APD's and would like to extend it them for another year, since the approval that we have received from the BLM is not yet due to expire. If you have any questions, feel free to give me a call.

Sincerely,

Mandie Crozier  
Regulatory Specialist

enclosures

JAN 05 2004

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

006

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒

Oil  
Well

☐

Gas  
Well

☐

Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**1894 FSL 727 FEL**

**NE/SE Section 34, T8S R17E**

5. Lease Designation and Serial No.

**UTU-76241**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**GREATER BOUNDARY**

8. Well Name and No.

**GREATER BOUNDARY 9-34-8-17**

9. API Well No.

**43-013-32331**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UT.**

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒

Notice of Intent

☐

Subsequent Report

☐

Final Abandonment Notice

TYPE OF ACTION

☐

Abandonment

☐

Recompletion

☐

Plugging Back

☐

Casing Repair

☐

Altering Casing

☒

Other

**Permit Extension**

☐

Change of Plans

☐

New Construction

☐

Non-Routine Fracturing

☐

Water Shut-Off

☐

Conversion to Injection

☐

Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Inland Production Company requests to extend the Permit to Drill this well for one year.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 01-06-04

By: [Signature]

JAN 05 2004

COPY SENT TO OPERATOR

Date: 1-8-04

Initials: CHO

14. I hereby certify that the foregoing is true and correct

Signed

[Signature]  
Mandie Crozier

Title

Regulatory Specialist

Date

1/2/2004

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

CC: Utah DOGM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 43-013-32331  
**Well Name:** Greater Boundary 9-34-8-17  
**Location:** NE/SE Section 34, T8S R17E  
**Company Permit Issued to:** Inland Production Company  
**Date Original Permit Issued:** 1/23/2002

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒ **NA**

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

Mandi Cozins  
Signature

1/2/2004

Date

Title: Regulatory Specialist

Representing: Inland Production Company

JAN 05 2004

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**007 SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**1894 FSL 727 FEL NE/SE Section 34, T8S R17E**

5. Lease Designation and Serial No.

**UTU-76241**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**GREATER BOUNDARY**

8. Well Name and No.

**GREATER BOUNDARY 9-34-8-17**

9. API Well No.

**43-013-32331**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UT.**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **Permit Extension**

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)\*

Inland Production Company requests to extend the Permit to Drill this well for one year. The original approval date was 3/5/03 (expiration 3/5/04).

**CONDITIONS OF APPROVAL ATTACHED**

**RECEIVED**

**APR 15 2004**

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed

Mandie Crozier  
Mandie Crozier

Title

Regulatory Specialist

Date

3/2/2004

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by

Kirk Johnson

Title

Petroleum Engineer

Date

3/30/04

Conditions of approval, if any:

CC: Utah DOGM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UDOGM



Inland Production Company  
APD Extension

Well: GB 9-34-8-17

Location: NESE Sec. 34, T8S, R17E

Lease: U-76241

**CONDITIONS OF APPROVAL**

An extension for the referenced APD is granted with the following conditions:

---

1. The extension will expire 3/4/05
2. No other extensions beyond that time frame will be granted or allowed.

If you have any other questions concerning this matter, please contact Kirk Fleetwood of this office at (435) 781-4486

**DIVISION OF OIL, GAS AND MINING****SPUDDING INFORMATION**Name of Company: INLAND PRODUCTION COMPANYWell Name: GB 9-34-8-17Api No: 43-013-32331 Lease Type: FEDERALSection 34 Township 08S Range 17E County DUCHESNEDrilling Contractor ROSS DRILLING RIG # 15**SPUDDED:**Date 05/11/04Time 3:30 PMHow DRY**Drilling will commence:** \_\_\_\_\_Reported by PAT WISENERTelephone # 1-435-823-7468Date 05/13/2004 Signed CHD

009

PAGE 02

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM - FORM 6

OPERATOR: **INLAND PRODUCTION COMPANY**  
ADDRESS: **RT. 3 BOX 3630**  
**MYTON, UT 84052**

RECEIVED

MAY 12 2004

DIV. OF OIL, GAS &amp; MINING

OPERATOR ACCT. NO. **N5160**

| ACTION<br>CODE | CURRENT<br>ENTITY NO. | NEW<br>ENTITY NO. | API NUMBER   | WELL NAME                  | WELL LOCATION |    |    |     |          | SPUD<br>DATE | EFFECTIVE<br>DATE |
|----------------|-----------------------|-------------------|--------------|----------------------------|---------------|----|----|-----|----------|--------------|-------------------|
|                |                       |                   |              |                            | QQ            | SC | TP | RG  | COUNTY   |              |                   |
| B              | 99999                 | 12391             | 43-013-32331 | Greater Boundary 9-34-8-17 | NE/SE         | 34 | 8S | 17E | Duchesne | May 11, 2004 | 5/13/04           |

WELL 1 COMMENTS:

GPPV

K

| ACTION<br>CODE | CURRENT<br>ENTITY NO. | NEW<br>ENTITY NO. | API NUMBER | WELL NAME | WELL LOCATION |    |    |    |        | SPUD<br>DATE | EFFECTIVE<br>DATE |
|----------------|-----------------------|-------------------|------------|-----------|---------------|----|----|----|--------|--------------|-------------------|
|                |                       |                   |            |           | QQ            | SC | TP | RG | COUNTY |              |                   |
|                |                       |                   |            |           |               |    |    |    |        |              |                   |

WELL 2 COMMENTS:

| ACTION<br>CODE | CURRENT<br>ENTITY NO. | NEW<br>ENTITY NO. | API NUMBER | WELL NAME | WELL LOCATION |    |    |    |        | SPUD<br>DATE | EFFECTIVE<br>DATE |
|----------------|-----------------------|-------------------|------------|-----------|---------------|----|----|----|--------|--------------|-------------------|
|                |                       |                   |            |           | QQ            | SC | TP | RG | COUNTY |              |                   |
|                |                       |                   |            |           |               |    |    |    |        |              |                   |

WELL 3 COMMENTS:

| ACTION<br>CODE | CURRENT<br>ENTITY NO. | NEW<br>ENTITY NO. | API NUMBER | WELL NAME | WELL LOCATION |    |    |    |        | SPUD<br>DATE | EFFECTIVE<br>DATE |
|----------------|-----------------------|-------------------|------------|-----------|---------------|----|----|----|--------|--------------|-------------------|
|                |                       |                   |            |           | QQ            | SC | TP | RG | COUNTY |              |                   |
|                |                       |                   |            |           |               |    |    |    |        |              |                   |

WELL 4 COMMENTS:

| ACTION<br>CODE | CURRENT<br>ENTITY NO. | NEW<br>ENTITY NO. | API NUMBER | WELL NAME | WELL LOCATION |    |    |    |        | SPUD<br>DATE | EFFECTIVE<br>DATE |
|----------------|-----------------------|-------------------|------------|-----------|---------------|----|----|----|--------|--------------|-------------------|
|                |                       |                   |            |           | QQ            | SC | TP | RG | COUNTY |              |                   |
|                |                       |                   |            |           |               |    |    |    |        |              |                   |

WELL 5 COMMENTS:

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/04)

*Kebbie S. Jones*  
Signature

Kebbie S. Jones

Production Clerk  
Title

May 12, 2004  
Date

INLAND

4356463001

05/12/2004 13:45

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**010 SUNDRY NOTICES AND REPORTS ON WELLS**

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5. Lease Designation and Serial No.

**UTU-76241**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**GREATER BOUNDARY**

8. Well Name and No.

**GREATER BOUNDARY 9-34-8-17**

9. API Well No.

**43-013-32331**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UT**

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**1894 FSL 727 FEL NE/SE Section 34, T8S R17E**

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☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **Weekly Status Report**

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

On 5-12-04 MIRU Eagle # 1. Set equipment. Pressure test Bop's, Kelly, & TIW to 2,000 psi. Test 85/8" csgn to 1,500 psi. Vernal BLM office was notified of test. PU BHA and tag cement @ 275'. Drill out cement & shoe. Continue to drill a 77/8" hole with fresh water to a depth of 6095'. Lay down drill string, BHA. Open hole log from TD to surface. PU & MU guide shoe, 1 jt 51/2" J-55 15.5 # csgn. Float collar, & 143 Jt's 51/2" J-55 15.5# csgn. Set @ 6087' KB. Cement with 300 sks Prem Lite II w/ 3% KCL, 8 % Gel, 5#"s sk CSE, 3#"s sk Kolseal, .8% Sms, 1/2# sks Celloflake. Mixed @ 11.0 ppg, >3.42 yld. Followed by 400 sks 50/50 Poz w/ 3% KCL, 2% Gel, .05% Static free, 1/2# sk Celloflake. Mixed @ 14.4 ppg, > 1.24 yld. Returned 20 bbls cement to pit. Nipple down BOP's. Drop slips @ 75,000 # 's tension. Clean pit's & release rig on 5-17-04

14. I hereby certify that the foregoing is true and correct

Signed

*Pat Wisener*

Title

**Drilling Foreman**

Date

**5/18/2004**

Pat Wisener

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

CC: Utah DOGM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**MAY 19 2004**

BLM OFFICE OF LAND & WATER

# INLAND PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT 6087.97

Fit cllr @ 6071

LAST CASING 8 5/8" SET AT 314'

OPERATOR Inland Production Company

DATUM 12' KB

WELL GBU 9-34-8-17

DATUM TO CUT OFF CASING 12

FIELD/PROSPECT Monument Butte

DATUM TO BRADENHEAD FLANGE

CONTRACTOR & RIG # Eagle # 1

TD DRILLER 6095' LOGGER 6087'

HOLE SIZE 7 7/8"

## LOG OF CASING STRING:

| PIECES     | OD            | ITEM - MAKE - DESCRIPTION | WT / FT      | GRD         | THREAD     | CONDT    | LENGTH  |
|------------|---------------|---------------------------|--------------|-------------|------------|----------|---------|
|            |               | Landing Jt                |              |             |            |          | 14      |
|            |               | <u>37' @ 3990'</u>        |              |             |            |          |         |
| <b>142</b> | <b>5 1/2"</b> | NPS LT & C casing         | <b>15.5#</b> | <b>J-55</b> | <b>8rd</b> | <b>A</b> | 6059.72 |
|            |               | Float collar              |              |             |            |          | 0.6     |
| <b>1</b>   | <b>5 1/2"</b> | NPS LT&C csg              | <b>15.5#</b> | <b>J-55</b> | <b>8rd</b> | <b>A</b> | 15      |
|            |               | <b>GUIDE</b> shoe         |              |             | <b>8rd</b> | <b>A</b> | 0.65    |

|                         |         |     |                             |                |
|-------------------------|---------|-----|-----------------------------|----------------|
| CASING INVENTORY BAL.   | FEET    | JTS | TOTAL LENGTH OF STRING      | 6089.97        |
| TOTAL LENGTH OF STRING  | 6089.97 | 143 | LESS CUT OFF PIECE          | 14             |
| LESS NON CSG. ITEMS     | 15.25   |     | PLUS DATUM TO T/CUT OFF CSG | 12             |
| PLUS FULL JTS. LEFT OUT | 43.3    | 1   | CASING SET DEPTH            | <b>6087.97</b> |

|                             |                |     |           |  |
|-----------------------------|----------------|-----|-----------|--|
| TOTAL                       | <b>6118.02</b> | 144 | } COMPARE |  |
| TOTAL CSG. DEL. (W/O THRDS) | 6118.02        | 144 |           |  |

|                 |               |           |                             |            |
|-----------------|---------------|-----------|-----------------------------|------------|
| TIMING          | 1ST STAGE     | 2nd STAGE |                             |            |
| BEGIN RUN CSG.  | 1:00pm        |           | GOOD CIRC THRU JOB          | Yes        |
| CSG. IN HOLE    | 4:00pm        |           | Bbls CMT CIRC TO SURFACE    | 20 bbls    |
| BEGIN CIRC      | 4:05pm        | 4:52pm    | RECIPROCATED PIPE IN/A      | THRUSTROKE |
| BEGIN PUMP CMT  | 5:03pm        | 5:31pm    | DID BACK PRES. VALVE HOLD ? | Yes        |
| BEGIN DSPL. CMT | 5:43pm        |           | BUMPED PLUG TO              | 2000 PSI   |
| PLUG DOWN       | <b>6:22pm</b> |           |                             |            |

|             |            |   |
|-------------|------------|---|
| CEMENT USED |            | CEMENT COMPANY- <b>B. J.</b>  |
| STAGE       | # SX       | CEMENT TYPE & ADDITIVES   |
| <b>1</b>    | <b>300</b> | Prem-lite II w/ 10% gel + 3 % KCL, 3#s /sk CSE + 2# sk/kolseal + 1/2#s/sk Cello Flake         |
|             |            | mixed @ 11.0 ppg W / 3.43 cf/sk yield   |
| <b>2</b>    | <b>400</b> | 50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD |

|                                   |                     |
|-----------------------------------|---------------------|
| CENTRALIZER & SCRATCHER PLACEMENT | SHOW MAKE & SPACING |
|-----------------------------------|---------------------|

Centralizers - Middle first, top second & third. Then every third collar for a total of 20.

COMPANY REPRESENTATIVE Pat Wisener

DATE 5/18/2004

**MAY 19 2004**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

011

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

|  |   |   |
|--|---|---|
| 1. Type of Well<br><input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other |   | 5. Lease Serial No.<br>UTU76241                                 |
| 2. Name of Operator<br>Inland Production Company   |   | 6. If Indian, Allottee or Tribe Name.                           |
| 3a. Address<br>Route 3 Box 3630<br>Myton, UT 84052   | 3b. Phone No. (include area code)<br>435.646.3721 | 7. If Unit or CA/Agreement, Name and/or No.<br>GREATER BOUNDARY |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)<br>1894 FSL 727 FEL<br>NE/SE Section 34 T8S R17E          |   | 8. Well Name and No.<br>GREATER BOUNDARY 9-34-8-17              |
|  |   | 9. API Well No.<br>4301332331                                   |
|  |   | 10. Field and Pool, or Exploratory Area<br>Monument Butte       |
|  |   | 11. County or Parish, State<br>Duchesne, UT                     |

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                               |   |  |   |
|---|--|---|--|---|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize             | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off   |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing        | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity   |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Casing Repair       | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other |
|   | <input type="checkbox"/> Change Plans        | <input type="checkbox"/> Plug & Abandon   | <input type="checkbox"/> Temporarily Abandon       | Weekly Status Report                      |
|   | <input type="checkbox"/> Convert to Injector | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            |   |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work was performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation requires multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Status report for time period 5/25/04 – 6/2/04

Subject well had completion procedures initiated in the Green River formation on 5/25/04 without the use of a service rig over the well. A cement bond log was run and a total of four Green River intervals were perforated and hydraulically fracture treated w/ 20/40 mesh sand. Perf intervals were #1 (5974-5981'), (5920-5938') (All 4 JSPF); #2 (5788-5798'), (5710-5720'), (5653-5661') (All 4 JSPF); #3 (5095-5103') (8 JSPF); #4 (4382-4401') (4 JSPF). Composite flow-through frac plugs were used between stages. Fracs were flowed back through chokes. A service rig was moved on well on 5/28/04. Bridge plugs were drilled out. Well was cleaned out to PBTD @ 6073'. Zones were swab tested for sand cleanup. A BHA & production tubing string were run in and anchored in well. End of tubing string @ 5996.26'. A new 1 1/2" bore rod pump was run in well on sucker rods. Well was placed on production via rod pump on 6/2/04.

RECEIVED

JUN 11 2004

DIV. OF OIL, GAS & MINING

|   |  |                   |
|---|--|-------------------|
| I hereby certify that the foregoing is true and correct |  | Title             |
| Name (Printed/ Typed)<br>Martha Hall                    |  | Office Manager    |
| Signature<br><i>Martha Hall</i>                         |  | Date<br>6/10/2004 |
| <b>THIS SPACE FOR FEDERAL OR STATE OFFICE USE</b>       |  |                   |

|   |        |      |
|---|--------|------|
| Approved by   | Title  | Date |
| Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. | Office |      |

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

012

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Inland Production Company

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone No. (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1894 FSL 727 FEL

NE/SE Section 34 T8S R17E

5. Lease Serial No.

UTU76241

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.

GREATER BOUNDARY

8. Well Name and No.

GREATER BOUNDARY 9-34-8-17

9. API Well No.

4301332331

10. Field and Pool, or Exploratory Area  
Monument Butte

11. County or Parish, State

Duchesne, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

| TYPE OF SUBMISSION                                   | TYPE OF ACTION                               |   |  |   |
|--|--|---|--|---|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize             | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production(Start/Resume)  | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Subsequent Report           | <input type="checkbox"/> Alter Casing        | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice    | <input type="checkbox"/> Casing Repair       | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input type="checkbox"/>                |
|  | <input type="checkbox"/> Change Plans        | <input type="checkbox"/> Plug & Abandon   | <input type="checkbox"/> Temporarily Abandon       | <input type="checkbox"/>                |
|  | <input type="checkbox"/> Convert to Injector | <input type="checkbox"/> Plug Back        | <input checked="" type="checkbox"/> Water Disposal | <input type="checkbox"/>                |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation requires multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Formation water is produced to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Inland's secondary recovery project.

Water not meeting quality criteria, is disposed at Inland's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

I hereby certify that the foregoing is true and correct

Name (Printed/ Typed)  
Mandie Crozier

Signature

Title

Regulatory Specialist

Date

6/30/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

RECEIVED

JUL 01 2004

DIV. OF OIL, GAS & MINING

# Inland Resources Inc.

---

July 7, 2004

State of Utah, Division of Oil, Gas and Mining  
Attn: Ms. Carol Daniels  
P.O. Box 145801  
Salt Lake City, Utah 84144-5801

RECEIVED  
JUL 12 2004  
DIV. OF OIL, GAS & MINING

Attn: Ms. Carol Daniels

Greater Boundary 9-34-8-17 (43-013-32331)  
Duchesne County, Utah

Federal 9-6-9-18 (43-047-35183)  
Uintah County, Utah

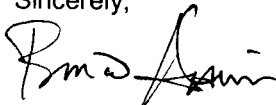
Canvasback 10-23-8-17 (43-047-34606)  
Uintah County, Utah

Dear Ms. Carol Daniels

Enclosed is a Well Completion or Recompletion Report and Log form (Form 3160-4). We are no longer sending Log copies since Pat Grissom of Phoenix Surveys is already doing so.

If you should have any questions, please contact me at (303) 382-4449.

Sincerely,



Brian Harris  
Engineering Tech

Enclosures

cc: Bureau of Land Management  
Vernal District Office, Division of Minerals  
Attn: Edwin I. Forsman  
170 South 500 East  
Vernal, Utah 84078

Well File – Denver  
Well File – Roosevelt  
Patsy Barreau/Denver  
Bob Jewett/Denver  
Matt Richmond/Roosevelt

---

Alamo Plaza Building  
1401 Seventeenth Street, Suite 1000  
Denver, CO 80202  
303-893-0102 • Fax: 303-893-0103



SUBMIT IN DUPLICATE\*  
(See other instructions on reverse side)FORM APPROVED  
OMB NO. 1004-0137  
Expires: February 28, 1995

013

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

## 1a. TYPE OF WORK

OIL WELL ☒GAS WELL ☐DRY ☐

Other \_\_\_\_\_

## 1b. TYPE OF WELL

NEW WELL ☒WORK OVER ☐DEEPEN ☐PLUG BACK ☐DIFF RESVR. ☐

Other \_\_\_\_\_

## 2. NAME OF OPERATOR

INLAND RESOURCES INC.

## 3. ADDRESS AND TELEPHONE NO.

1401 17th St. Suite 1000 Denver, CO 80202

## 4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)\*

At Surface 1894' FSL &amp; 727' FEL (NESE) Sec. 34, T8S R17E

At top prod. Interval reported below

At total depth

## 14. API NO.

43-013-32331

## DATE ISSUED

3/5/2003

## 12. COUNTY OR PARISH

Duchesne

## 13. STATE

UT

## 15. DATE SPUDDED

5/11/2004

## 16. DATE T.D. REACHED

5/17/2004

## 17. DATE COMPL. (Ready to prod.)

6/2/2004

## 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

5050' GL

5062' KB

## 19. ELEV. CASINGHEAD

## 20. TOTAL DEPTH, MD &amp; TVD

6095'

## 21. PLUG BACK T.D., MD &amp; TVD

6073'

## 22. IF MULTIPLE COMPL., HOW MANY\*

## 23. INTERVALS DRILLED BY

-----&gt;

## ROTARY TOOLS

X

## CABLE TOOLS

## 24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\*

Green River 4382'-5981'

## 25. WAS DIRECTIONAL SURVEY MADE

No

## 26. TYPE ELECTRIC AND OTHER LOGS RUN

DIG/GR, CD/CN/GR, CBL

## 27. WAS WELL CORED

No

## 23. CASING RECORD (Report all strings set in well)

| CASING SIZE/GRADE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | TOP OF CEMENT, CEMENTING RECORD         | AMOUNT PULLED |
|-------------------|-----------------|----------------|-----------|---|---------------|
| 8-5/8" - J-55     | 24#             | 313'           | 12-1/4"   | To surface with 150 sx Class "G" cmt    |               |
| 5-1/2" - J-55     | 15.5#           | 6087'          | 7-7/8"    | 300 sxs Premlite II & 400 sxs 50/50 POZ |               |

## 29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) | SIZE   | DEPTH SET (MD) | PACKER SET (MD) |
|------|----------|-------------|---------------|-------------|--------|----------------|-----------------|
|      |          |             |               |             | 2-7/8" | EOT @ 5996'    | TA @ 5897'      |

## 31. PERFORATION RECORD (Interval, size and number)

| INTERVAL                               | SIZE | SPF/NUMBER | DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED              |
|--|------|------------|---------------------|---|
| (CP4,5) 5920-38', 5974-81'             | .41" | 4/100      | 5920'-5981'         | Frac w/ 64,642# 20/40 sand in 528 bbls fluid. |
| (CP.5,1,2) 5653-61, 5710-20', 5788-98' | .41" | 4/112      | 5653'-5798'         | Frac w/ 49,946# 20/40 sand in 436 bbls fluid. |
| (B.5) 5095-5103'                       | .41" | 4/32       | 5095'-5103'         | Frac w/ 19,329# 20/40 sand in 254 bbls fluid. |
| (GB4) 4382'-4401'                      | .41" | 4/76       | 4382'-4401'         | Frac w/ 41,286# 20/40 sand in 368 bbls fluid. |
|  |      |            |                     |   |
|  |      |            |                     |   |
|  |      |            |                     |   |
|  |      |            |                     |   |
|  |      |            |                     |   |

## 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

## 33.\*

## PRODUCTION

|                                   |  |   |                                   |                                   |                 |                 |   |                       |
|-----------------------------------|--|---|-----------------------------------|-----------------------------------|-----------------|-----------------|---|-----------------------|
| DATE FIRST PRODUCTION<br>6/2/2004 |  | PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)<br>Randys 2 1/2" x 1 1/2" x 16' RHAC Pump |                                   |                                   |                 |                 | WELL STATUS (Producing or shut-in)<br>Producing |                       |
| DATE OF TEST<br>10 day ave        |  | HOURS TESTED  | CHOKE SIZE                        | PROD'N. FOR TEST PERIOD<br>-----> | OIL--BBL.<br>39 | GAS--MCF.<br>83 | WATER--BBL.<br>4                                | GAS-OIL RATIO<br>2128 |
| FLOW. TUBING PRESS.               |  | CASING PRESSURE   | CALCULATED 24-HOUR RATE<br>-----> | OIL-BBL.                          | GAS--MCF.       | WATER--BBL.     | OIL GRAVITY-API (CORR.)<br>R5                   |                       |

## 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold &amp; Used for Fuel

## TEST WITNESSED BY

## 35. LIST OF ATTACHMENTS

## 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Brian Harris

TITLE

Engineering Technician

DATE

RECEIVED  
JUL 12 2004  
DIV. OF OIL, GAS & MINING  
BDH

\*(See Instructions and Spaces for Additional Data on Reverse Side)

| 37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries); | GEOLOGIC MARKERS |     |        |   |
|---|------------------|-----|--------|---|
|   | FORMATION        | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC.   |
|   |                  |     |        | <div>Well Name</div> <div>Greater Boundary 9-34-8-17</div>  |
| 38.   |                  |     |        | <div>NAME</div> <div>           Garden Gulch Mkr<br/>           Garden Gulch 1<br/>           Garden Gulch 2<br/>           Point 3 Mkr<br/>           X Mkr<br/>           Y-Mkr<br/>           Douglas Creek Mkr<br/>           BiCarbonate Mkr<br/>           B Limestone Mkr<br/>           Castile Peak<br/>           Basal Carbonate<br/>           Total Depth (LOGGERS)         </div> |
|   |                  |     |        | <div>MEAS. DEPTH</div> <div>           3849'<br/>           4032'<br/>           4150'<br/>           4418'<br/>           4647'<br/>           4684'<br/>           4820'<br/>           5064'<br/>           5210'<br/>           5632'<br/>           6050'<br/>           6095'         </div>  |
|   |                  |     |        | <div>TOP</div> <div></div>  |
|   |                  |     |        | <div>TRUE VERT. DEPTH</div> <div></div>   |



## Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company  
Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.



A handwritten signature in black ink, appearing to read "G. Connor".

Secretary of State



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155  
<http://www.blm.gov>



IN REPLY REFER TO:  
3106  
(UT-924)

September 16, 2004

### Memorandum

To: Vernal Field Office  
From: Acting Chief, Branch of Fluid Minerals  
Subject: Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Michael Coulthard  
Acting Chief, Branch of  
Fluid Minerals

### Enclosure

1. State of Texas Certificate of Registration

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225  
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114  
Teresa Thompson  
Joe Incardine  
Connie Seare

|         |        |        |        |       |        |
|---------|--------|--------|--------|-------|--------|
| UTSL-   | 15855  | 61052  | 73088  | 76561 |        |
| 071572A | 16535  | 62848  | 73089  | 76787 |        |
| 065914  | 16539  | 63073B | 73520A | 76808 |        |
|         | 16544  | 63073D | 74108  | 76813 |        |
|         | 17036  | 63073E | 74805  | 76954 | 63073X |
|         | 17424  | 63073O | 74806  | 76956 | 63098A |
|         | 18048  | 64917  | 74807  | 77233 | 68528A |
| UTU-    | 18399  | 64379  | 74808  | 77234 | 72086A |
|         | 19267  | 64380  | 74389  | 77235 | 72613A |
| 02458   | 26026A | 64381  | 74390  | 77337 | 73520X |
| 03563   | 30096  | 64805  | 74391  | 77338 | 74477X |
| 03563A  | 30103  | 64806  | 74392  | 77339 | 75023X |
| 04493   | 31260  | 64917  | 74393  | 77357 | 76189X |
| 05843   | 33992  | 65207  | 74398  | 77359 | 76331X |
| 07978   | 34173  | 65210  | 74399  | 77365 | 76788X |
| 09803   | 34346  | 65635  | 74400  | 77369 | 77098X |
| 017439B | 36442  | 65967  | 74404  | 77370 | 77107X |
| 017985  | 36846  | 65969  | 74405  | 77546 | 77236X |
| 017991  | 38411  | 65970  | 74406  | 77553 | 77376X |
| 017992  | 38428  | 66184  | 74411  | 77554 | 78560X |
| 018073  | 38429  | 66185  | 74805  | 78022 | 79485X |
| 019222  | 38431  | 66191  | 74806  | 79013 | 79641X |
| 020252  | 39713  | 67168  | 74826  | 79014 | 80207X |
| 020252A | 39714  | 67170  | 74827  | 79015 | 81307X |
| 020254  | 40026  | 67208  | 74835  | 79016 |        |
| 020255  | 40652  | 67549  | 74868  | 79017 |        |
| 020309D | 40894  | 67586  | 74869  | 79831 |        |
| 022684A | 41377  | 67845  | 74870  | 79832 |        |
| 027345  | 44210  | 68105  | 74872  | 79833 |        |
| 034217A | 44426  | 68548  | 74970  | 79831 |        |
| 035521  | 44430  | 68618  | 75036  | 79834 |        |
| 035521A | 45431  | 69060  | 75037  | 80450 |        |
| 038797  | 47171  | 69061  | 75038  | 80915 |        |
| 058149  | 49092  | 69744  | 75039  | 81000 |        |
| 063597A | 49430  | 70821  | 75075  |       |        |
| 075174  | 49950  | 72103  | 75078  |       |        |
| 096547  | 50376  | 72104  | 75089  |       |        |
| 096550  | 50385  | 72105  | 75090  |       |        |
|         | 50376  | 72106  | 75234  |       |        |
|         | 50750  | 72107  | 75238  |       |        |
| 10760   | 51081  | 72108  | 76239  |       |        |
| 11385   | 52013  | 73086  | 76240  |       |        |
| 13905   | 52018  | 73087  | 76241  |       |        |
| 15392   | 58546  | 73807  | 76560  |       |        |

ARTICLES OF AMENDMENT  
TO THE  
ARTICLES OF INCORPORATION  
OF  
INLAND PRODUCTION COMPANY

FILED  
In the Office of the  
Secretary of State of Texas  
SEP 02 2004  
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE – The name of the corporation is Newfield Production Company."

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1<sup>st</sup> day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs  
Susan G. Riggs, Treasurer

## OPERATOR CHANGE WORKSHEET

## ROUTING

1. GLH

2. CDW

3. FILE

014

Change of Operator (Well Sold)

Designation of Agent/Operator

X Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:

9/1/2004

**FROM: (Old Operator):**  
 N5160-Inland Production Company  
 Route 3 Box 3630  
 Myton, UT 84052  
 Phone: 1-(435) 646-3721

**TO: ( New Operator):**  
 N2695-Newfield Production Company  
 Route 3 Box 3630  
 Myton, UT 84052  
 Phone: 1-(435) 646-3721

CA No.

Unit:

GREATER BOUNDARY (GR)

## WELL(S)

| NAME              | SEC TWN RNG |      |      | API NO     | ENTITY NO | LEASE TYPE | WELL TYPE | WELL STATUS |   |
|-------------------|-------------|------|------|------------|-----------|------------|-----------|-------------|---|
| GBU 4-26-8-17     | 26          | 080S | 170E | 4301332289 | 12391     | Federal    | OW        | P           |   |
| GBU 5-26-8-17     | 26          | 080S | 170E | 4301332290 | 12391     | Federal    | WI        | A           |   |
| GBU 12-26-8-17    | 26          | 080S | 170E | 4301332306 | 12391     | Federal    | OW        | P           |   |
| GBU 13-26-8-17    | 26          | 080S | 170E | 4301332307 |           | Federal    | OW        | APD         |   |
| FEDERAL 1-26      | 26          | 080S | 170E | 4304731953 | 12391     | Federal    | WI        | A           |   |
| GBU 15-27-8-17    | 27          | 080S | 170E | 4301332246 | 12391     | Federal    | OW        | P           |   |
| GBU 16-27-8-17    | 27          | 080S | 170E | 4301332247 | 12391     | Federal    | OW        | P           |   |
| GB 1-28-8-17      | 28          | 080S | 170E | 4301332318 | 12391     | Federal    | WI        | A           | K |
| GB FED 11-29-8-17 | 29          | 080S | 170E | 4301332518 |           | Federal    | OW        | APD         | K |
| GB FED 10-29-8-17 | 29          | 080S | 170E | 4301332520 |           | Federal    | OW        | APD         | K |
| GBU 1-34-8-17     | 34          | 080S | 170E | 4301332252 | 12391     | Federal    | OW        | P           |   |
| GBU 2-34-8-17     | 34          | 080S | 170E | 4301332253 | 12391     | Federal    | OW        | P           |   |
| GBU 4-34-8-17     | 34          | 080S | 170E | 4301332254 | 12391     | Federal    | OW        | P           |   |
| GBU 5-34-8-17     | 34          | 080S | 170E | 4301332255 | 12391     | Federal    | OW        | P           |   |
| GBU 6-34-8-17     | 34          | 080S | 170E | 4301332256 | 12391     | Federal    | OW        | P           |   |
| GBU 7-34-8-17     | 34          | 080S | 170E | 4301332257 | 12391     | Federal    | OW        | P           |   |
| GBU 8-34-8-17     | 34          | 080S | 170E | 4301332277 | 12391     | Federal    | OW        | S           |   |
| GBU 3-34-8-17     | 34          | 080S | 170E | 4301332292 | 12391     | Federal    | OW        | P           |   |
| GB 9-34-8-17      | 34          | 080S | 170E | 4301332331 | 12391     | Federal    | OW        | P           | K |
| GB 10-34-8-17     | 34          | 080S | 170E | 4301332332 | 12391     | Federal    | OW        | P           | K |
|                   |             |      |      |            |           |            |           |             |   |
|                   |             |      |      |            |           |            |           |             |   |

## OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/15/20042. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/15/20043. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 2/23/2005

4. Is the new operator registered in the State of Utah: YES Business Number: 755627-0143

5. If NO, the operator was contacted contacted on:

- 6a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
- 6b. Inspections of LA PA state/fee well sites complete on: waived

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: na/

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/23/2005

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 2/28/2005
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 2/28/2005
3. Bond information entered in RBDMS on: 2/28/2005
4. Fee/State wells attached to bond in RBDMS on: 2/28/2005
5. Injection Projects to new operator in RBDMS on: 2/28/2005
6. Receipt of Acceptance of Drilling Procedures for APD/New on: waived

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: UT 0056

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: 61BSBDH2912

**FEE & STATE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 61BSBDH2919
2. The **FORMER** operator has requested a release of liability from their bond on: n/a\*
- The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

\*Bond rider changed operator name from Inland Production Company to Newfield Production Company - received 2/23/05



## OPERATOR CHANGE WORKSHEET

015

Change of Operator (Well Sold)

Designation of Agent/Operator

## ROUTING

1. GLH

2. CDW

3. FILE

X Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:

9/1/2004

**FROM:** (Old Operator):

N5160-Inland Production Company

Route 3 Box 3630

Myton, UT 84052

Phone: 1-(435) 646-3721

**TO:** ( New Operator):

N2695-Newfield Production Company

Route 3 Box 3630

Myton, UT 84052

Phone: 1-(435) 646-3721

CA No.

Unit:

GREATER BOUNDARY (GR)

## WELL(S)

| NAME              | SEC | TWN  | RNG  | API NO     | ENTITY NO | LEASE TYPE | WELL TYPE | WELL STATUS |   |
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| GB FED 10-29-8-17 | 29  | 080S | 170E | 4301332520 |           | Federal    | OW        | APD         | K |
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| GBU 2-34-8-17     | 34  | 080S | 170E | 4301332253 | 12391     | Federal    | OW        | P           |   |
| GBU 4-34-8-17     | 34  | 080S | 170E | 4301332254 | 12391     | Federal    | OW        | P           |   |
| GBU 5-34-8-17     | 34  | 080S | 170E | 4301332255 | 12391     | Federal    | OW        | P           |   |
| GBU 6-34-8-17     | 34  | 080S | 170E | 4301332256 | 12391     | Federal    | OW        | P           |   |
| GBU 7-34-8-17     | 34  | 080S | 170E | 4301332257 | 12391     | Federal    | OW        | P           |   |
| GBU 8-34-8-17     | 34  | 080S | 170E | 4301332277 | 12391     | Federal    | OW        | S           |   |
| GBU 3-34-8-17     | 34  | 080S | 170E | 4301332292 | 12391     | Federal    | OW        | P           |   |
| GB 9-34-8-17      | 34  | 080S | 170E | 4301332331 | 12391     | Federal    | OW        | P           | K |
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|                   |     |      |      |            |           |            |           |             |   |
|                   |     |      |      |            |           |            |           |             |   |

## OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/15/20042. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/15/20043. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 2/23/20054. Is the new operator registered in the State of Utah: YES Business Number: 755627-01435. If **NO**, the operator was contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: IN PLACE  
6b. Inspections of LA PA state/fee well sites complete on: waived

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: na/

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/23/2005

#### DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 2/28/2005
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 2/28/2005
- Bond information entered in RBDMS on: 2/28/2005
- Fee/State wells attached to bond in RBDMS on: 2/28/2005
- Injection Projects to new operator in RBDMS on: 2/28/2005
- Receipt of Acceptance of Drilling Procedures for APD/New on: waived

#### FEDERAL WELL(S) BOND VERIFICATION:

- Federal well(s) covered by Bond Number: UT 0056

#### INDIAN WELL(S) BOND VERIFICATION:

- Indian well(s) covered by Bond Number: 61BSBDH2912

#### FEE & STATE WELL(S) BOND VERIFICATION:

- (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 61BSBDH2919
- The **FORMER** operator has requested a release of liability from their bond on: n/a\*  
The Division sent response by letter on: n/a

#### LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

#### COMMENTS:

\*Bond rider changed operator name from Inland Production Company to Newfield Production Company - received 2/23/05



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8  
999 18<sup>TH</sup> STREET - SUITE 300  
DENVER, CO 80202-2466  
Phone 800-227-8917  
<http://www.epa.gov/region08>

MAY 26 2006

Ref: 8P-W-GW

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

David Gerbig  
Operations Engineer  
Newfield Production Company  
1401 Seventeenth Street - Suite 1000  
Denver, CO 80202

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

43,013,38331

85 17E 34

RE: Additional Well to Boundary Area Permit  
UIC Permit No. UT20702-00000  
Well ID: UT20702-06744  
Greater Boundary No. 9-34-8-17  
Duchesne County, Utah

Dear Mr. Gerbig:

The Newfield Production Company (Newfield) request to convert the shut-in Greater Boundary No. 9-34-8-17 to a Green River Formation enhanced recovery injection well is hereby authorized by the Environmental Protection Agency (EPA) under the terms and conditions of the Authorization For Additional Well.

The addition of the Greater Boundary No. 9-34-8-17, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 Code of Federal Regulations (CFR) §144.33 (c) and terms of the Boundary Area Permit, Underground Injection Control (UIC) Area Permit No. UT20702 -00000. Unless specifically mentioned in the enclosed Authorization For Additional Well, the Greater Boundary No. 9-34-8-17 is subject to all terms and conditions of the UIC Area Permit UT20702-00000 as modified.

Please be aware that Newfield does not have authorization to begin injection operations into the well until all Prior to Commencing Injection requirements have been submitted and evaluated by the EPA, and Newfield has received written authorization from the Director to begin injection. Please note that the permit limits injection to the gross interval within the Green River Formation between the depths of 3850 feet and the top of the Wasatch Formation at 6175 feet.

RECEIVED

JUN 01 2006

Printed On Recycled Paper  
DIV. OF OIL, GAS AND MINING

Prior to receiving authorization to inject, the EPA requires that Newfield submit for review and approval the following: (1) the results of a **Part I (Internal) mechanical integrity test (MIT)**, (2) a **pore pressure** calculation of the injection interval, and (3) a completed **EPA Form No. 7520-12 (Well Rework Record)** with a new schematic diagram.

The initial Maximum Allowable Injection Pressure (MAIP) for the Greater Boundary No. 9-34-8-17 was determined to be **1205 psig**. UIC Area Permit UT20702-00000 also provides the opportunity for the permittee to request a change in the MAIP based upon results of a Step-Rate Test that demonstrates that the formation breakdown pressure will not be exceeded.

If you have any questions, please call Mr. Dan Jackson at (303) 312-6155 or 1.800.227.8917 (Ext. 6155). Please submit the required data to **ATTENTION: DAN JACKSON**, at the letterhead address, citing **MAIL CODE: 8P-W-GW** very prominently.

Sincerely,



Stephen S. Tuber  
Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

encl: Authorization For Conversion of An Additional Well  
EPA Form No. 7520-12 (Well Rework Record)  
Schematic Diagram: Greater Boundary No. 9-34-8-17  
Ground Water Section Guidance No. 39 (Part I Internal MIT)

cc: without enclosures  
Maxine Natchees  
Acting Chairperson  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Chester Mills  
Superintendent  
BIA - Uintah & Ouray Indian Agency

cc: with enclosures

Lynn Becker  
Director  
Energy & Minerals Dept.  
Ute Indian Tribe

S. Elaine Willie  
Environmental Coordinator  
Ute Indian Tribe

Michael Guinn  
Vice President - Operations  
Newfield Production Company  
Myton, UT 84052

Gil Hunt  
Technical Services Manager  
Utah Division of Oil, Gas, and Mining

Matt Baker  
Sr. Petroleum Engineer  
BLM - Vernal District



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8  
999 18<sup>TH</sup> STREET - SUITE 300  
DENVER, CO 80202-2466  
Phone 800-227-8917  
<http://www.epa.gov/region08>

**AUTHORIZATION FOR ADDITIONAL WELL**

**UIC Area Permit No: UT20702-00000**

The Final Underground Injection Control (UIC) Boundary Area Permit No. UT20702-00000, effective February 8, 1994, authorized enhanced recovery injection into specific intervals in the Douglas Creek Member of the Green River Formation. A Minor Permit Modification No. 2, effective May 20, 1998, authorized injection for the purpose of enhanced oil recovery into multiple lenticular sand and carbonate units which are distributed throughout the Garden Gulch and Douglas Creek Members of the Green River Formation. A Major Area Permit Modification No. 3, effective May 19, 2003, authorized injection into the Garden Gulch-Douglas Creek-Basal Carbonate Members of the Green River Formation. On April 13, 2005, the permittee provided notice to the Director concerning the following additional enhanced recovery injection well:

|                     |  |
|---------------------|--|
| Well Name:          | <b><u>Greater Boundary No. 9-34-9-17</u></b>                                     |
| EPA Well ID Number: | <b><u>UT20702-06744</u></b>  |
| Location:           | 1894 ft FSL & 727 ft FEL<br>NE SE Sec. 34 - T8S - R17E<br>Duchesne County, Utah. |

Pursuant to 40 Code of Federal Regulations (CFR) §144.33, Boundary Area UIC Permit No. UT20702-00000 authorizes the permittee to construct and operate, convert, or plug and abandon additional enhanced recovery injection wells within the area permit. This well was determined to satisfy additional well criteria required by the permit.

This well is subject to all provisions of UIC Area Permit No. UT20702-00000, as modified and as specified in the Well Specific Requirements detailed below. This Authorization shall expire one year after the Effective Date unless the permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date: 5/25/02

**Stephen S. Tuber**

\*Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

*\* The person holding this title is referred to as the Director throughout the Permit and Authorization*



## WELL-SPECIFIC REQUIREMENTS

Well Name: **Greater Boundary No. 9-34-8-17**

EPA Well ID Number: **UT20702-06744**

**Prior to commencing injection operations, the permittee shall submit the following information and receive written Authority to Inject from the Director: (II. C. Condition 2).**

1. a successful Part I (Internal) Mechanical Integrity Test (MIT);
2. pore pressure calculation of the proposed injection zone;
3. completed Well Rework Record (EPA Form No. 7520-12) and a schematic diagram.

### **Approved Injection Zone:**

**(II. C. Condition C. 4)**

Injection is approved between the top of the Green River Formation Garden Gulch Member (3850 feet) and the top of the Wasatch Formation (Est. 6175 feet).

The Permittee has cited current perforations proposed for enhanced recovery injection, i.e., gross 4382 feet - 5981 feet. The permittee is also authorized to perforate any additional intervals for enhanced recovery injection between the top of the Garden Gulch Member and the top of the Wasatch Formation during well conversion.

### **Determination of a Fracture Gradient:**

**((II. C. Condition 5. b. 1).)**

*"Using sand fracture treatment data, the EPA will calculate the Maximum Allowable Injection Pressure (MAIP) for each treated (sand-frac) interval using the instantaneous shut-in pressure (ISIP) from that interval. The minimum MAIP calculated shall be the initial maximum allowable surface injection pressure limit for that well."*

Of the four (4) sand/frac treatments conducted on the Greater Boundary No. 9-34-8-17, the minimum calculated fracture gradient (FG) is 0.71 psi/ft; a value in accord with FGs derived from Step-Rate Tests (SRT) in contiguous sections.

### **Maximum Allowable Injection Pressure (MAIP):**

**(II. C. Condition 5).**

The initial MAIP is **1205 psig**, based on the following calculation and a cited "top perforation":

$$\begin{aligned}\text{MAIP} &= [\text{FG} - (0.433)(\text{SG})] \text{ D, where} \\ \text{FG} &= 0.71 \text{ psi/ft} \\ \text{SG} &= 1.005 \\ \text{D} &= 4382 \text{ ft (Top perforation depth)}\end{aligned}$$

$$\text{MAIP} = 1204 \text{ psig, but increased to } \mathbf{1205 \text{ psig.}}$$

UIC Area Permit No. UT20702-00000 also provides the opportunity for the permittee to request a change of the MAIP based upon results of a Step-Rate Test that demonstrates the formation breakdown pressure will not be exceeded.

**Well Construction and Corrective Action:**

**(II. A).**

**Corrective Action is required.** The permittee shall not be required to conduct a Part II (External) Mechanical Integrity Test (MIT).

**Tubing and Packer:**

**(II. A. Condition 3).**

2-7/8" or similar size injection tubing is approved; the packer shall be set at a depth no more than 100 ft above the top perforation.

**Corrective Action for Wells in Area of Review:** **No Corrective Action is required.** The following Green River oil wells within or proximate to a one-quarter (1/4) mile radius around the Greater Boundary No. 9-34-8-17 were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs. Other than a weekly inspection of each location for surface injectate leakage, no corrective action is required.

Greater Boundary 10-34-8-17  
Harbourtown Federal 44-34

- NW SE Section 34 - T8S - R17E
- SE NE Section 34 - T8S - R17E

**Demonstration of Mechanical Integrity:**

**(II. C. Condition 3).**

A successful demonstration of (Part I (Internal) Mechanical Integrity using a standard Casing-Tubing pressure test is required prior to injection and each at least once every five years thereafter.

**Demonstration of Financial Responsibility:**

**(II. F. Condition 1).**

The applicant has demonstrated financial responsibility via an Annual Statement that has been reviewed and approved by the EPA. The Plugging and Abandonment cost has been estimated by the permittee to be \$32,500.

**(II. E. Condition 2).**

**Plugging and Abandonment:**

The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluids into or between USDWs. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs. However, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. Within sixty (60) days after plugging, the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

PLUG NO. 1: Set a cast iron bridge plug (CIBP) no more than 100 ft above the top perforation. Place at least fifty (50) feet of cement plug on top of the CIBP.

PLUG NO. 2: Set a cement plug inside of the 5-1/2" casing from 2000 feet to 2450 feet. This plug will cover both a water zone between 2000 feet and 2200 feet as well as the top of the Green River Formation.



PLUG NO. 3: Circulate Class "G" cement down the 5-1/2 inch casing to a depth of 363 feet and up the 5-1/2 inch X 8-5/8 inch casings annulus to the surface.

Cut off surface and 5-1/2" casing at least 4 ft below ground level. Set P&A marker. Submit Sundry Notices and all necessary data as required by the EPA and other regulatory agencies.

**Reporting of Noncompliance:**

**(III. E.)**

- (a) Anticipated Noncompliance. The operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than thirty (30) days following each schedule date.
- (c) Written Notice of any noncompliance which may endanger health or the environment shall be reported to the Director within five (5) days of the time the operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause; the period of noncompliance including dates and times; if the noncompliance has not been corrected the anticipated time it is expected to continue; and steps taken or planned to prevent or reduce recurrence of the noncompliance.

**Twenty-Four Hour Noncompliance Reporting:**

**(II. E.).**

The operator shall report to the Director any noncompliance which may endanger health or environment. Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the operator becomes aware of the circumstances by telephoning 1.800.227-8917 and asking for the EPA Region 8 UIC Program Compliance and Enforcement Director, or by contacting the Region 8 Emergency Operations Center at 303.293.1788 if calling from outside EPA Region 8. The following information shall be included in the verbal report:

- (a) Any monitoring or other information which indicates that any contaminant may cause an endangerment to a USDW.
- (b) Any noncompliance with a Permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

**Oil Spill and Chemical Release Reporting:**

**(II. E.).**

The operator shall comply with all other reporting requirements related to oil spills and chemical releases or other potential impacts to human health or the environment by contacting the **National Response Center (NRC) 1.800.424.8802 or 202.267.2675**, or through the NRC website at **<http://www.nrc.uscg.mil/index.htm>**.

Other Noncompliance:

(II. E.).

The operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted.

Other Information:

(II. E.)

Where the operator becomes aware that he failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two (2) weeks of the time such information became known to him.

**WELL-SPECIFIC CONSIDERATIONS**

Well Name: **Greater Boundary No. 9-34-8-17**

EPA Well ID Number: **UT20702-06744**

**Current Status:** The Greater Boundary No. 9-34-8-17 is a producing Garden Gulch-Douglas Creek Members oil well currently waiting on EPA authorization to complete/convert to a Class II Green River Formation enhanced recovery injection well.

**Underground Sources of Drinking Water (USDWs):** USDWs in the Boundary Area Permit generally occur within the Uinta Formation. According to the "*Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92,*" the base of moderately saline ground water may be found at approximately 200 feet below ground surface.

**<http://NRWRT1.NR.STATE.UT.US>: (Water Rights...Queries...POD).** Within the one-quarter (1/4) mile Area-of-Review (AOR) around the Greater Boundary No. 9-34-8-17 there are no reservoirs, streams, springs, domestic or agricultural water wells.

**Composition of Injectate and Formation Water: (Total Dissolved Solids [TDS])**

- TDS of Garden Gulch/Douglas Creek Green River Formation water: 12,418 mg/l (Analysis: 3/10/05).
- TDS of Johnson Water District Reservoir: 674 mg/l (Analysis: 1/10/05)
- TDS blended injectate: 6907 mg/l. Blended at pump facility with Source Water and Boundary Unit produced water (Analyzed 3/11/05).

**Confining Zone:**

The Confining Zone is fifty (50) feet of shale between the depths of 3800 feet and 3850 feet (KB) which directly overlies the Garden Gulch Member of the Green River Formation. The Cement Bond Log (CBL) identifies 80% bond index cement bond across the entire confining interval.

**Injection Zone:****(II. C. 4.)**

The Injection Zone is an approximately 2325-foot section of multiple lenticular sand units interbedded with shale, marlstone and limestone from the top of the Garden Gulch Member at 3850 ft to the top of the Wasatch Formation (Estimated 6175 feet). All Formation and Formation Member tops are based on correlation to the Federal No.1-26-8-17 Type Log (UT20702-04671).

**Well Construction:****(II. A. 1. ).**

**Surface Casing:** 8-5/8" casing is set at 330 (KB) in a 12-1/4" hole, using 150 sacks of cement which was circulated to the surface.

**Longstring:** 5-1/2" casing is set at 6087 feet (KB) in a 7-7/8" hole and secured with 700 sacks of cement. Calculated top of cement (TOC) by EPA: 1558 feet.

**Perforations:** Gross Perforations: 4382 feet to 5981 feet.

**Step-Rate Test (SRT):****(II. C. 2. d.).**

A Step-Rate Test may be required to confirm that the initial maximum authorized injection pressure (MAIP), based on sand/frac treatments, is appropriate to ensure that pressure during injection will not initiate new fractures or propagate existing fractures in the confining zone.

**Wells in Area of Review (AOR):**

The permittee shall observe the surface location of the all wells cited below for surface leakage on a weekly basis. Should such injectate contamination be observed at the surface, the permittee shall immediately suspend injection into the Greater Boundary No. 9-34-9-17. The Greater Boundary No. 9-34-8-17 will stay suspended until the noncompliance has been resolved. Renewed injection shall be authorized by letter from the Director.

Greater Boundary 10-34-8-17  
Harbourtown Fed. 44-34

- NW SE Section 34 - T8S - R17E
- NW SE Section 34 - T8S - R17E

## WELL REWORK RECORD

NAME AND ADDRESS OF CONTRACTOR

STATE

**COUNTY**

**PERMIT NUMBER**

### SURFACE LOCATION DESCRIPTION

1/4 of 1/4 of 1/4 of 1/4 of Section Township Range

**LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT**

## Surface

Location \_\_\_\_ ft. from (N/S) \_\_\_\_ Line of quarter section

and \_\_\_\_\_ ft. from (E/W) \_\_\_\_\_ Line of quarter section

## WELL ACTIVITY

- ☐ Brine Disposal  
☐ Enhanced Recovery  
☐ Hydrocarbon Storage

**Lease Name****Total Depth Before Rework****Total Depth After Rework****Date Rework Commenced**

**Date Rework Completed**

**TYPE OF PERMIT**

- ☐
- Individual

- Area**

Number of Wells \_\_\_\_\_

Well Number

### WELL CASING RECORD — BEFORE REWORK

[illegible]

**WELL CASING RECORD — AFTER REWORK** *(Indicate Additions and Changes Only)*

[illegible]

**DESCRIBE REWORK OPERATIONS IN DETAIL  
USE ADDITIONAL SHEETS IF NECESSARY**

**WIRE LINE LOGS, LIST EACH TYPE**

### Log Types

### Logged Intervals

## CERTIFICATION

*I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).*

NAME AND OFFICIAL TITLE (Please type or print)

**SIGNATURE**

DATE SIGNED \_\_\_\_\_

# Greater Boundary 9-34-8-17

Spud Date: 5/11/2004  
Put on Production: 6/2/2004

GL: 5050' KB: 5062'

## SURFACE CASING

CSG SIZE: 8 5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (301')

DEPTH LANDED: 313' KB *825e USDWs 4200'*

HOLE SIZE: 12-1/4"

CEMENT DATA: 150 sxs Class "G" cmt, est 4 bbls cmt to surf.

## PRODUCTION CASING

CSG SIZE: 5 1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 143 jts. (6089')

DEPTH LANDED: 6087' KB

HOLE SIZE: 7 7/8"

CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.

CEMENT TOP AT: 50'

## TUBING

SIZE/GRADE/WT.: 2 7/8" / J-55 / 6.5#

NO. OF JOINTS: 187 jts (5885')

TUBING ANCHOR: 5897' KB

NO. OF JOINTS: 1 jts

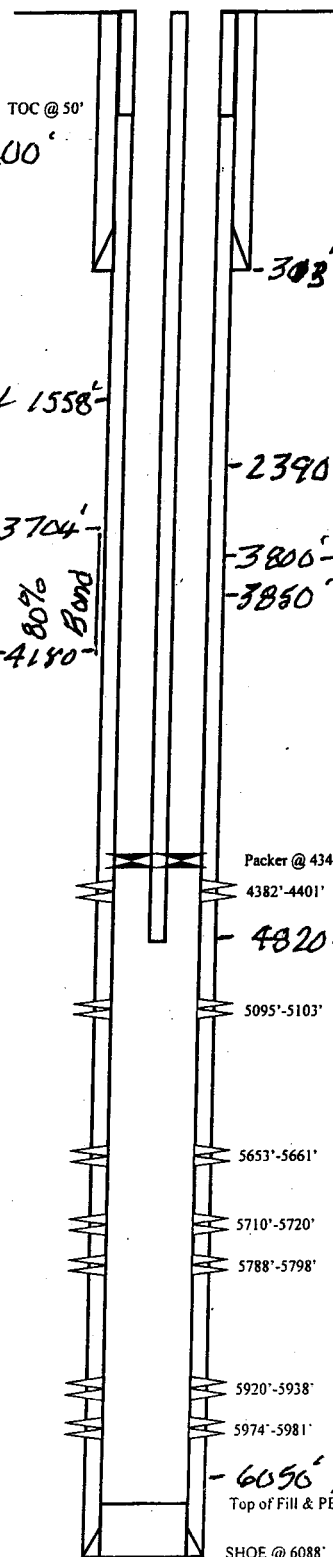
SEATING NIPPLE: 2 7/8" (1.10')

SN LANDED AT: 5931' KB

NO. OF JOINTS: 2 jt

TOTAL STRING LENGTH: EOT @ 5996' KB

## Proposed Injection Wellbore Diagram



Initial Production: 39 BOPD,  
83 MCFD, 4 BWPD

## FRAC JOB

|           |             |   |
|-----------|-------------|---|
| 5/26/2004 | 5920'-5981' | Frac CP sand as follows:<br>64,642# 20/40 sand in 528 bbls Lightning 17 fluid. Treated @ avg press of 1778 psi w/avg rate of 24.8 BPM. ISIP 2280 psi. Calc flush: 5920 gal. Actual flush: 5922 gal.   |
| 5/27/2004 | 5653'-5798' | Frac CP sand as follows:<br>49,946# 20/40 sand in 436 bbls Lightning 17 fluid. Treated @ avg press of 1338 psi w/avg rate of 24.8 BPM. ISIP 1560 psi. Calc flush: 5653 gal. Actual flush: 5628 gal.   |
| 5/27/2004 | 5095'-5103' | Frac B.5 sand as follows:<br>19,329# 20/40 sand in 254 bbls Lightning 17 fluid. Treated @ avg press of 1601 psi w/avg rate of 24.8 BPM. ISIP 1800 psi. Calc flush: 5095 gal. Actual flush: 5082 gal.  |
| 5/27/2004 | 4382'-4401' | Frac CB 4 sand as follows:<br>41,286# 20/40 sand in 368 bbls Lightning 17 fluid. Treated @ avg press of 1830 psi w/avg rate of 24.7 BPM. ISIP 2015 psi. Calc flush: 4382 gal. Actual flush: 4284 gal. |

*-2390' Green River*

*-3800'-3850' Confining Zone*  
*-3850' Garden Gulch*

## PERFORATION RECORD

|           |             |        |          |
|-----------|-------------|--------|----------|
| 5/25/2004 | 5920'-5938' | 4 JSPF | 72 holes |
| 5/25/2004 | 5974'-5981' | 4 JSPF | 28 holes |
| 5/26/2004 | 5788'-5798' | 4 JSPF | 40 holes |
| 5/26/2004 | 5710'-5720' | 4 JSPF | 40 holes |
| 5/26/2004 | 5653'-5661' | 4 JSPF | 32 holes |
| 5/27/2004 | 5095'-5103' | 4 JSPF | 32 holes |
| 5/27/2004 | 4382'-4401' | 4 JSPF | 76 holes |

## NEWFIELD

### Greater Boundary 9-34-8-17

1894' FSL & 727' FEL

NE/SE Section 34-T8S-R17E

Duchesne Co, Utah

API #43-013-32331; Lease #UTU-76241



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500  
DENVER, COLORADO 80202-2466

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 39

Pressure testing injection wells for Part I (internal)  
Mechanical Integrity

FROM: Tom Pike, Chief  
UIC Direct Implementation Section

TO: All Section Staff  
Montana Operations Office

Introduction

The Underground Injection Control (UIC) regulations require that an injection well have mechanical integrity at all times (40 CFR 144.28 (f)(2) and 40 CFR 144.51 (q)(1)). A well has mechanical integrity (40 CFR 146.8) if:

- (1) There is no significant leak in the tubing, casing or packer; and
- (2) There is no significant fluid movement into an underground source of drinking water (USDW) through vertical channels adjacent to the injection wellbore.

Definition: Mechanical Integrity Pressure Test for Part I. A pressure test used to determine the integrity of all the downhole components of an injection well, usually tubing, casing and packer. It is also used to test tubing cemented in the hole by using a tubing plug or retrievable packer. Pressure tests must be run at least once every five years. If for any reason the tubing/packer is pulled, the injection well is required to pass another mechanical integrity test of the tubing casing and packer prior to recommencing injection regardless of when the last test was conducted. Tests run by operators in the absence of an EPA inspector must be conducted according to these procedures and recorded on either the attached form or an equivalent form containing the necessary information. A pressure recording chart documenting the actual annulus test pressures must be attached to the form.

This guidance addresses making a determination of Part I of Mechanical Integrity (no leaks in the tubing, casing or packer). The Region's policy is: 1) to determine if there are significant leaks in the tubing, casing or packer; 2) to assure that the casing can withstand pressure similar to that which

would be applied if the tubing or packer fails; 3) to make the Region's test procedure consistent with the procedures utilized by other Region VIII Primacy programs; and 4) to provide a procedure which can be easily administered and is applicable to all class I and II wells. Although there are several methods allowed for determining mechanical integrity, the principal method involves running a pressure test of the tubing/casing annulus. Region VIII's procedure for running a pressure test is intended to aid UIC field inspectors who witness pressure tests for the purpose of demonstrating that a well has Part I of Mechanical Integrity. The guidance is also intended as a means of informing operators of the procedures required for conducting the test in the absence of an EPA inspector.

### Pressure Test Description

#### Test Frequency

The mechanical integrity of an injection well must be maintained at all times. Mechanical integrity pressure tests are required at least every five (5) years. If for any reason the tubing/packer is pulled, however, the injection well is required to pass another mechanical integrity test prior to recommencing injection regardless of when the last test was conducted. The Regional UIC program must be notified of the workover and the proposed date of the pressure test. The well's test cycle would then start from the date of the new test if the well passes the test and documentation is adequate. Tests may be required on a more frequent basis depending on the nature of the injectate and the construction of the well (see Section guidance on MITs for wells with cemented tubing and regulations for Class I wells).

Region VIII's criteria for well testing frequency is as follows:

1. Class I hazardous waste injection wells; initially [40 CFR 146.68(d)(1)] and annually thereafter;
2. Class I non-hazardous waste injection wells; initially and every two (2) years thereafter, except for old permits (such as the disposal wells at carbon dioxide extraction plants which require a test at least every five years);
3. Class II wells with tubing, casing and packer; initially and at least every five (5) years thereafter;
4. Class II wells with tubing cemented in the hole; initially and every one (1) or two (2) years thereafter

depending on well specific conditions (See Region VIII UIC Section Guidance #36);

5. Class II wells which have been temporarily abandoned (TAd) must be pressure tested after being shut-in for two years; and
6. Class III uranium extraction wells; initially.

#### Test Pressure

To assure that the test pressure will detect significant leaks and that the casing is subjected to pressure similar to that which would be applied if the tubing or packer fails, the tubing/casing annulus should be tested at a pressure equal to the maximum allowed injection pressure or 1000 psig whichever is less. The annular test pressure must, however, have a difference of at least 200 psig either greater or less than the injection tubing pressure. Wells which inject at pressures of less than 300 psig must test at a minimum pressure of 300 psig, and the pressure difference between the annulus and the injection tubing must be at least 200 psi.

#### Test Criteria

1. The duration of the pressure test is 30 minutes.
2. Both the annulus and tubing pressures should be monitored and recorded every five (5) minutes.
3. If there is a pressure change of 10 percent or more from the initial test pressure during the 30 minute duration, the well has failed to demonstrate mechanical integrity and should be shut-in until it is repaired or plugged.
4. A pressure change of 10 percent or more is considered significant. If there is no significant pressure change in 30 minutes from the time that the pressure source is disconnected from the annulus, the test may be completed as passed.

#### Recordkeeping and Reporting

The test results must be recorded on the attached form. The annulus pressure should be recorded at five (5) minute intervals. Tests run by operators in the absence of an EPA inspector must be conducted according to these procedures and recorded on the attached form or an equivalent form and a pressure recording



chart documenting the actual annulus test pressures must be attached to the submittal. The tubing pressure at the beginning and end of each test must be recorded. The volume of the annulus fluid bled back at the surface after the test should be measured and recorded on the form. This can be done by bleeding the annulus pressure off and discharging the associated fluid into a five gallon container. The volume information can be used to verify the approximate location of the packer.

#### Procedures for Pressure Test

1. Scheduling the test should be done at least two (2) weeks in advance.
2. Information on the well completion (location of the packer, location of perforations, previous cement work on the casing, size of casing and tubing, etc.) and the results of the previous MIT test should be reviewed by the field inspector in advance of the test. Regional UIC Guidance #35 should also be reviewed. Information relating to the previous MIT and any well workovers should be reviewed and taken into the field for verification purposes.
3. All Class I wells and Class II SWD wells should be shut-in prior to the test. A 12 to 24-hour shut-in is preferable to assure that the temperature of the fluid in the wellbore is stable.
4. Class II enhanced recovery wells may be operating during the test, but it is recommended that the well be shut-in if possible.
5. The operator should fill the casing/tubing annulus with inhibited fluid at least 24 hours in advance, if possible. Filling the annulus should be undertaken through one valve with the second valve open to allow air to escape. After the operator has filled the annulus, a check should be made to assure that the annulus will remain full. If the annulus can not maintain a full column of fluid, the operator should notify the Director and begin a rework. The operator should measure and report the volume of fluid added to the annulus. If not already the case, the casing/tubing valves should be closed, at least, 24 hours prior to the pressure test.

Following steps are at the well:

6. Read tubing pressure and record on the form. If the

well is shut-in, the reported information on the actual maximum operating pressure should be used to determine test pressures.

7. Read pressure on the casing/tubing annulus and record value on the form. If there is pressure on the annulus, it should be bled off prior to the test. If the pressure will not bleed-off, the guidance on well failures (Region VIII UIC Section Guidance #35) should be followed.
8. Ask the operator for the date of the last workover and the volume of fluid added to the annulus prior to this test and record information on the form.
9. Hook-up well to pressure source and apply pressure until test value is reached.
10. Immediately disconnect pressure source and start test time (If there has been a significant drop in pressure during the process of disconnection, the test may have to be restarted). The pressure gages used to monitor injection tubing pressure and annulus pressure should have a pressure range which will allow the test pressure to be near the mid-range of the gage. Additionally, the gage must be of sufficient accuracy and scale to allow an accurate reading of a 10 percent change to be read. For instance, a test pressure of 600 psi should be monitored with a 0 to 1000 psi gage. The scale should be incremented in 20 psi increments.
11. Record tubing and annulus pressure values every five (5) minutes.
12. At the end of the test, record the final tubing pressure.
13. If the test fails, check the valves, bull plugs and casing head close up for possible leaks. The well should be retested.
14. If the second test indicates a well failure, the Region should be informed of the failure within 24 hours by the operator, and the well should be shut-in within 48 hours per Headquarters guidance #76. A follow-up letter should be prepared by the operator which outlines the cause of the MIT failure and proposes a potential course of action. This report should be submitted to EPA within five days.

15. Bleed off well into a bucket, if possible, to obtain a volume estimate. This should be compared to the calculated value obtained using the casing/tubing annulus volume and fluid compressibility values.
16. Return to office and prepare follow-up.

#### Alternative Test Option

While it is expected that the test procedure outlined above will be applicable to most wells, the potential does exist that unique circumstances may exist for a given well that precludes or makes unsafe the application of this test procedure. In the event that these exceptional or extraordinary conditions are encountered, the operator has the option to propose an alternative test or monitoring procedures. The request must be submitted by the operator in writing and must be approved in writing by the UIC-Implementation Section Chief or equivalent level of management.

Attachment

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Test conducted by: \_\_\_\_\_

Others present: \_\_\_\_\_

|                          |                                    |                            |
|--------------------------|------------------------------------|----------------------------|
| Well Name: _____         | Type: ER SWD                       | Status: AC TA UC           |
| Field: _____             |                                    |                            |
| Location: _____          | Sec: _____ T _____ N/S R _____ E/W | County: _____ State: _____ |
| Operator: _____          |                                    |                            |
| Last MIT: ____/____/____ | Maximum Allowable Pressure: _____  | PSIG                       |

Is this a regularly scheduled test? ☐ Yes ☐ No

Initial test for permit? ☐ Yes ☐ No

Test after well rework? ☐ Yes ☐ No

Well injecting during test? ☐ Yes ☐ No If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: \_\_\_\_\_ psig

| MIT DATA TABLE                          |   | Test #1   | Test #2   | Test #3   |
|---|---|---|---|---|
| <b>TUBING PRESSURE</b>                  |   |   |   |   |
| Initial Pressure                        | psig  |   | psig  | psig  |
| End of test pressure                    | psig  |   | psig  | psig  |
| <b>CASING / TUBING ANNULUS PRESSURE</b> |   |   |   |   |
| 0 minutes                               | psig  |   | psig  | psig  |
| 5 minutes                               | psig  |   | psig  | psig  |
| 10 minutes                              | psig  |   | psig  | psig  |
| 15 minutes                              | psig  |   | psig  | psig  |
| 20 minutes                              | psig  |   | psig  | psig  |
| 25 minutes                              | psig  |   | psig  | psig  |
| 30 minutes                              | psig  |   | psig  | psig  |
| minutes                                 | psig  |   | psig  | psig  |
| minutes                                 | psig  |   | psig  | psig  |
| RESULT                                  | <input type="checkbox"/> Pass <input type="checkbox"/> Fail | <input type="checkbox"/> Pass <input type="checkbox"/> Fail | <input type="checkbox"/> Pass <input type="checkbox"/> Fail | <input type="checkbox"/> Pass <input type="checkbox"/> Fail |

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-76241

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
GREATER BOUNDARY II

8. WELL NAME and NUMBER:  
GREATER BOUNDARY 9-34-8-17

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4301332331

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

10. FIELD AND POOL, OR WILDCAT:  
MONUMENT BUTTE

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 1894 FSL 727 FEL

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NESE, 34, T8S, R17E

STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION   | TYPE OF ACTION  |   |  |  |
|--|---|---|--|--|
| <input type="checkbox"/> NOTICE OF INTENT<br>(Submit in Duplicate)<br><br>Approximate date work will<br><br>_____                      | <input type="checkbox"/> ACIDIZE                        | <input type="checkbox"/> DEEPEN                           | <input type="checkbox"/> REPERFORATE CURRENT FORMATION |  |
|  | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> FRACTURE TREAT                   | <input type="checkbox"/> SIDETRACK TO REPAIR WELL      |  |
|  | <input type="checkbox"/> CASING REPAIR                  | <input type="checkbox"/> NEW CONSTRUCTION                 | <input type="checkbox"/> TEMPORARILY ABANDON           |  |
|  | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS       | <input type="checkbox"/> OPERATOR CHANGE                  | <input type="checkbox"/> TUBING REPAIR                 |  |
|  | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> PLUG AND ABANDON                 | <input type="checkbox"/> VENT OR FLAIR                 |  |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT<br>(Submit Original Form Only)<br><br>Date of Work Completion:<br><br>01/25/2007 | <input type="checkbox"/> CHANGE WELL NAME               | <input type="checkbox"/> PLUG BACK                        | <input type="checkbox"/> WATER DISPOSAL                |  |
|  | <input checked="" type="checkbox"/> CHANGE WELL STATUS  | <input type="checkbox"/> PRODUCTION (START/STOP)          | <input type="checkbox"/> WATER SHUT-OFF                |  |
|  | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE         | <input type="checkbox"/> OTHER: -                      |  |
|  | <input checked="" type="checkbox"/> CONVERT WELL TYPE   | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION |  |  |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The subject well has been converted from a producing oil well to an injection well on 1/25/07. On 11/28/06 Dan Jackson with the EPA was contacted concerning the initial MIT on the above listed well. Permission was given at that time to perform the test on 2/8/07. On 2/8/07 the casing was pressured up to 1160 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 540 psig during the test. There was not an EPA representative available to witness the test. EPA# UT 20702-06744 API# 43-013-32331

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**

NAME (PLEASE PRINT) Callie Ross

TITLE Production Clerk

SIGNATURE

*Callie Ross*

DATE 02/15/2007

**RECEIVED**

(This space for State use only)

**FEB 21 2007**

DIV. OF OIL, GAS & MINING

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 02/08/07  
Test conducted by: Dee Giles  
Others present: \_\_\_\_\_

|  |                |  |                             |
|--|----------------|--|-----------------------------|
| Well Name: <u>Greater Boundary 9-34-8-17</u> |                | Type: <u>ER SWD</u>                    | Status: <u>AC TA UC</u>     |
| Field: <u>Greater Boundary unit</u>          |                |  |                             |
| Location: _____                              | Sec: <u>34</u> | T <u>8</u>                             | N <u>10</u> R <u>17</u> E W |
| County: <u>Duchesne</u>                      |                | State: <u>UT</u>                       |                             |
| Operator: <u>Newfield Production Co.</u>     |                |  |                             |
| Last MIT: <u>1</u> / <u>1</u>                |                | Maximum Allowable Pressure: _____ PSIG |                             |

Is this a regularly scheduled test? ☐ Yes ☐ No  
Initial test for permit? ☒ Yes ☐ No  
Test after well rework? ☐ Yes ☐ No  
Well injecting during test? ☐ Yes ☐ No If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: 0 psig

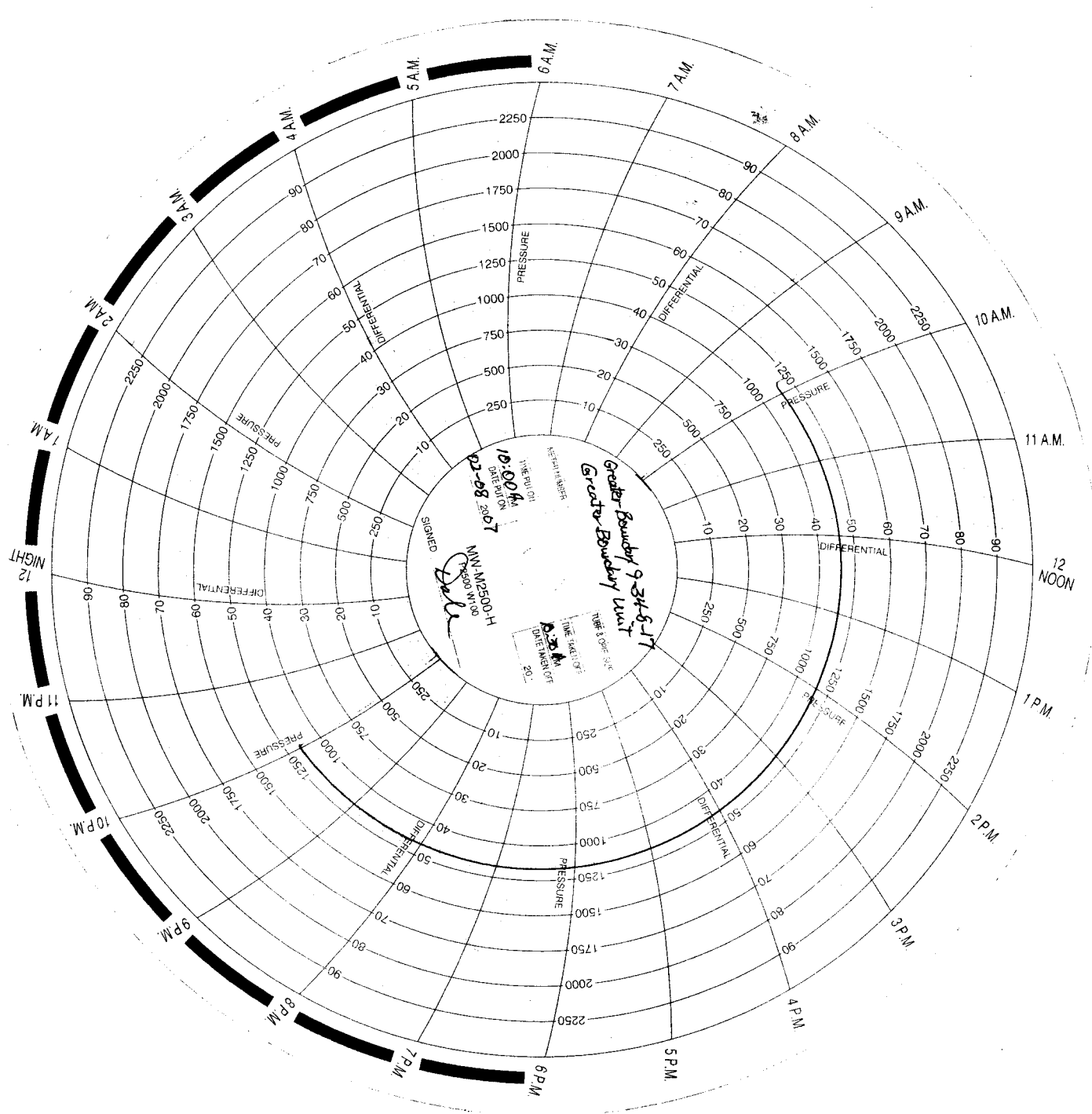
| MIT DATA TABLE         | Test #1   | Test #2   | Test #3   |
|------------------------|---|---|---|
| <b>TUBING</b>          | <b>PRESSURE</b>   |   |   |
| Initial Pressure       | <u>540</u> psig   | psig  | psig  |
| End of test pressure   | <u>540</u> psig   | psig  | psig  |
| <b>CASING / TUBING</b> | <b>ANNULUS PRESSURE</b>                                     |   |   |
| 0 minutes              | <u>1160</u> psig  | psig  | psig  |
| 5 minutes              | <u>1160</u> psig  | psig  | psig  |
| 10 minutes             | <u>1160</u> psig  | psig  | psig  |
| 15 minutes             | <u>1160</u> psig  | psig  | psig  |
| 20 minutes             | <u>1160</u> psig  | psig  | psig  |
| 25 minutes             | <u>1160</u> psig  | psig  | psig  |
| 30 minutes             | <u>1160</u> psig  | psig  | psig  |
| _____ minutes          | psig  | psig  | psig  |
| _____ minutes          | psig  | psig  | psig  |
| <b>RESULT</b>          | <input type="checkbox"/> Pass <input type="checkbox"/> Fail | <input type="checkbox"/> Pass <input type="checkbox"/> Fail | <input type="checkbox"/> Pass <input type="checkbox"/> Fail |

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8  
1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

MAR 23 2007

Ref: 8P-W-GW

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Mr. Mike Guinn  
Vice President - Operations  
Newfield Production Company  
Route 3 - Box 3630  
Myton, UT 84502

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

43.013.32331  
8S 17E 34  
RE: Authority to Commence Injection  
Greater Boundary No. 9-34-8-17  
EPA Permit No. UT20702-06744  
UIC Area Permit UT20702-00000  
Duchesne County, Utah

Dear Mr. Guinn:

The Newfield Production Company (Newfield) has satisfactorily fulfilled all the Environmental Protection Agency's (EPA) **Prior to Commencing Injection** requirements in the Boundary Area Permit UT20702-00000 (Effective February 8, 1994), and the Additional Well to the Area Permit, UT20702-06744, (Effective May 25, 2006). All Prior to Commencing Injection Requirements, i.e., Part I (Internal) Mechanical Integrity Test, Well Rework Record (EPA Form No. 7520-12), and a pore pressure were reviewed and approved by the EPA on March 1, 2007.

Newfield, as of the date of this letter, is authorized to commence injection into the Greater Boundary No. 9-34-8-17. Until such time that the permittee demonstrates through a Step-Rate Test (SRT) that the Fracture Gradient (FG) is other than 0.710 psi/ft, the Greater Boundary No. 9-34-8-17 shall be operated at a **maximum allowable injection pressure no greater than 1205 psig.**

RECEIVED

MAR 29 2007



Printed on Recycled Paper

DIV. OF OIL, GAS & MINING



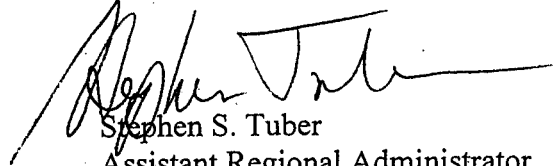
As of this approval, responsibility for Permit compliance and enforcement is transferred to the Region VIII UIC Technical Enforcement Program office. Therefore, please direct all monitoring and compliance correspondence to the following address, referencing your well name and UIC Permit number on all correspondence regarding this well:

Mr. Nathan Wiser  
 Technical Enforcement Program - UIC  
 U.S. EPA Region VIII: Mail Code 8ENF-UFO  
 1595 Wynkoop Street  
 Denver, CO 80202-1129  
 Phone: 303-312-6211, or 1-800-227-8917 (Ext. 6211)

Please be reminded that it is your responsibility to be aware of and to comply with all conditions of Boundary Area Permit UT20702-00000, and well Permit UT20702-06744.

If you have any questions in regard to the above action, please contact Emmett Schmitz at 1-800-227-8917 (Ext. 6174), or 303-312-6174.

Sincerely,



Stephen S. Tuber  
 Assistant Regional Administrator  
 Office Of Partnerships and Regulatory Assistance

cc: David Gerbig  
 Operations Engineer  
 Newfield Production Company  
 Denver, CO 80202

Maxine Natchees  
 Chairperson  
 Uintah & Ouray Business Committee  
 Ute Indian Tribe

Lynn Becker  
 Director  
 Energy & Minerals Department  
 Ute Indian Tribe

Shaun Chapoose  
Director  
Land Use Dept.  
Ute Indian Tribe

Chester Mills  
Superintendent  
U.S. Bureau of Indian Affairs  
Uintah & Ouray Indian Agency

Gilbert Hunt  
Assistant Director  
State of Utah - Natural Resources

Fluid Minerals Engineering Office  
U.S. Bureau of Land Management  
Vernal, Utah

Irene Cuchs  
Councilwoman  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Smiley Arrowchis  
Councilman  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Ronald Groves  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Richard Jenks, Jr.  
Councilman  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Francis Poowegup  
Councilman  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Nathan Wiser, 8ENF-UFO

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-76241

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
GREATER BOUNDARY II

8. WELL NAME and NUMBER:  
GREATER BOUNDARY 9-34-8-17

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4301332331

3. ADDRESS OF OPERATOR:  
Route 3 Box 3630 CITY Myton STATE UT ZIP 84052

PHONE NUMBER  
435.646.3721

10. FIELD AND POOL, OR WILDCAT:  
MONUMENT BUTTE

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 1894 FSL 727 FEL

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NESE, 34, T8S, R17E

STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION  | TYPE OF ACTION  |   |   |
|---|---|---|---|
| <input checked="" type="checkbox"/> NOTICE OF INTENT<br>(Submit in Duplicate)<br><br>Approximate date work will<br>05/04/2007 | <input type="checkbox"/> ACIDIZE                        | <input type="checkbox"/> DEEPEN                           | <input type="checkbox"/> REPERFORATE CURRENT FORMATION                            |
|   | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> FRACTURE TREAT                   | <input type="checkbox"/> SIDETRACK TO REPAIR WELL                                 |
|   | <input type="checkbox"/> CASING REPAIR                  | <input type="checkbox"/> NEW CONSTRUCTION                 | <input type="checkbox"/> TEMPORARITLY ABANDON                                     |
|   | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS       | <input type="checkbox"/> OPERATOR CHANGE                  | <input type="checkbox"/> TUBING REPAIR  |
|   | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> PLUG AND ABANDON                 | <input type="checkbox"/> VENT OR FLAIR  |
| <input type="checkbox"/> SUBSEQUENT REPORT<br>(Submit Original Form Only)<br><br>Date of Work Completion:                     | <input type="checkbox"/> CHANGE WELL NAME               | <input type="checkbox"/> PLUG BACK                        | <input type="checkbox"/> WATER DISPOSAL   |
|   | <input type="checkbox"/> CHANGE WELL STATUS             | <input type="checkbox"/> PRODUCTION (START/STOP)          | <input type="checkbox"/> WATER SHUT-OFF   |
|   | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE         | <input checked="" type="checkbox"/> OTHER: - Change status, put well on injection |
|   | <input checked="" type="checkbox"/> CONVERT WELL TYPE   | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION |   |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above reference well was put on injection at 5:00 PM on 6-1-07.

UCI# UT20702-06744

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

RECEIVED

JUN 06 2007

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Kathy Chapman

TITLE Office Manager

SIGNATURE

DATE 06/04/2007

(This space for State use only)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

**SUBMIT IN TRIPLICATE. Other Instructions on reverse side**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address

Route 3 Box 3630  
Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1894 FSL 727 FEL

NESE Section 34 T8S R17E

5. Lease Serial No.

USA UTU-76241

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

GREATER BOUNDARY II

8. Well Name and No.

GREATER BOUNDARY 9-34-8-17

9. API Well No.

4301332331

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                         |   |   |   |
|---|--|---|---|---|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize       | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production(Start/Resume) | <input type="checkbox"/> Water Shut-Off         |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing  | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation              | <input type="checkbox"/> Well Integrity         |
| <input type="checkbox"/> Final Abandonment            | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete               | <input checked="" type="checkbox"/> Other _____ |
|   | <input type="checkbox"/> Change Plans  | <input type="checkbox"/> Plug & Abandon   | <input type="checkbox"/> Temporarily Abandon      | Step Rate Test _____                            |
|   | <input type="checkbox"/> Convert to    | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal           | _____   |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

A step rate test was conducted on the subject well on September 7, 2007. Results from the test indicate that the fracture gradient is .727 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed to 1255 psi.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Chevenne Bateman

Signature



Title

Well Analyst Foreman

Date

09/20/2007

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

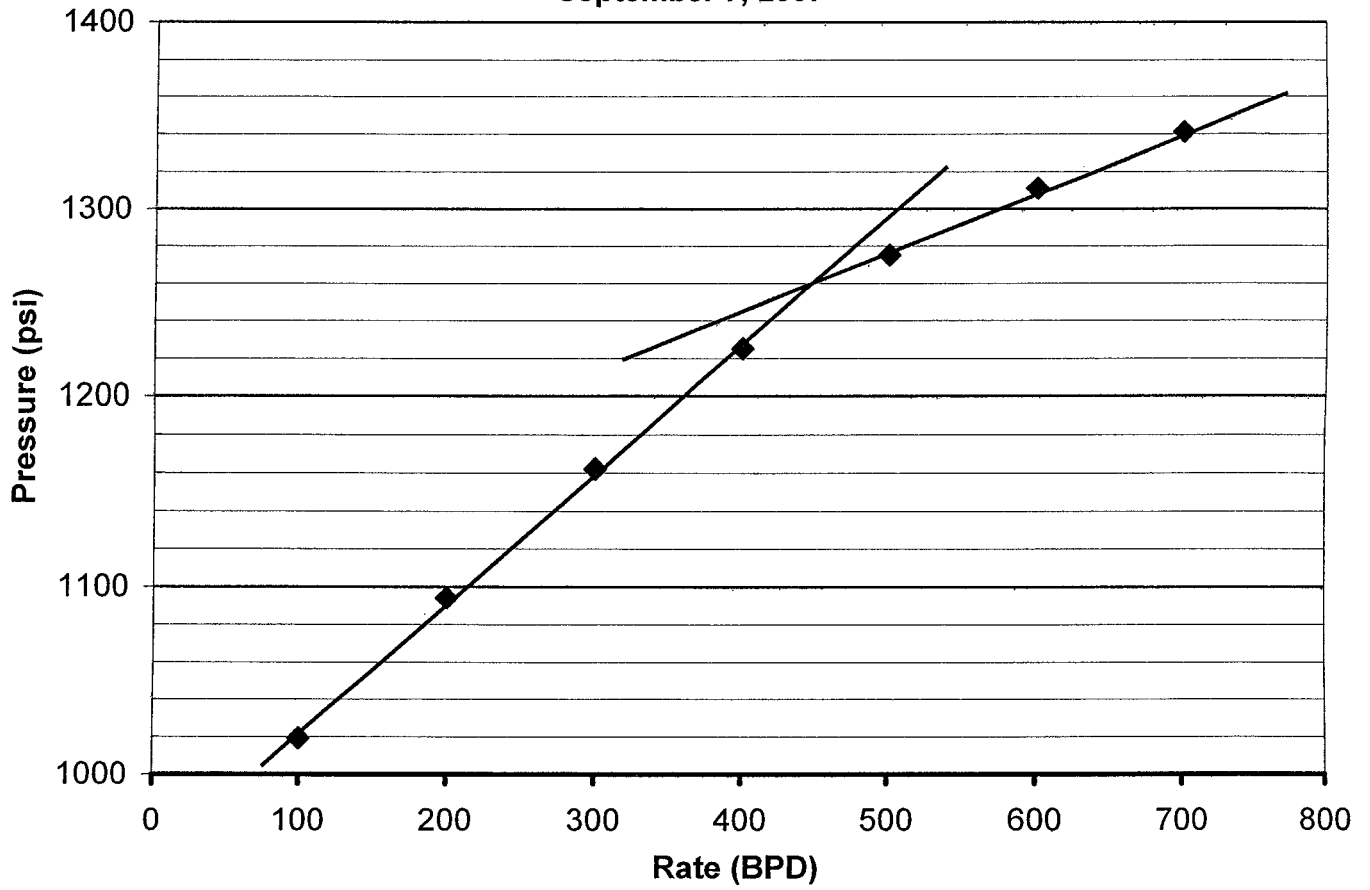
(Instructions on reverse)

**RECEIVED**

SEP 26 2007

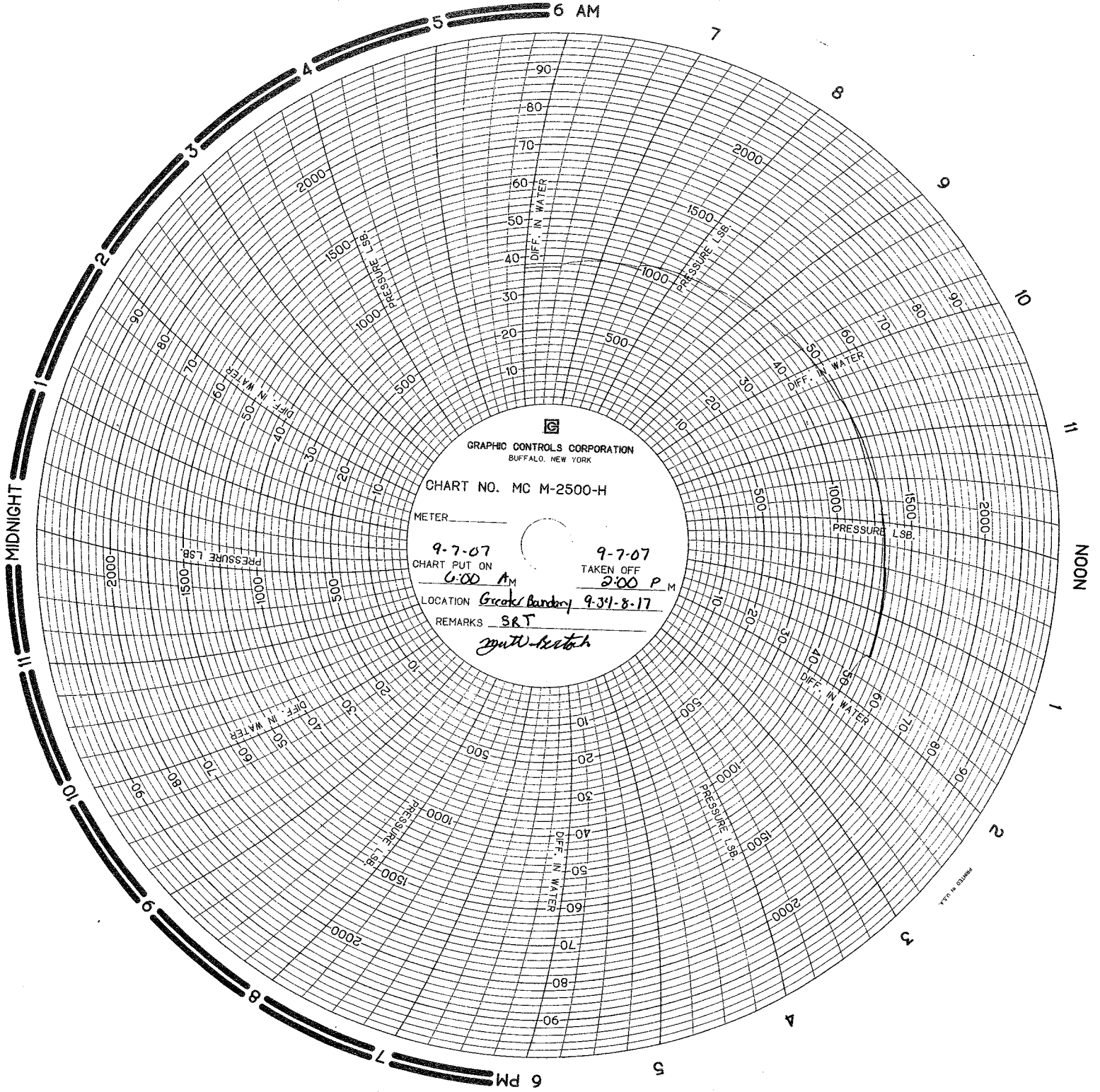
DIV. OF OIL, GAS & MINING

**Greater Boundary 9-34-8-17  
Greater Boundary II Unit  
Step Rate Test  
September 7, 2007**



**Start Pressure:** 931 psi  
**Instantaneous Shut In Pressure (ISIP):** 1316 psi  
**Top Perforation:** 4382 feet  
**Fracture pressure (P<sub>fp</sub>):** 1260 psi  
**FG:** 0.727 psi/ft

| Step | Rate(bpd) | Pressure(psi) |
|------|-----------|---------------|
| 1    | 100       | 1019          |
| 2    | 200       | 1094          |
| 3    | 300       | 1162          |
| 4    | 400       | 1225          |
| 5    | 500       | 1275          |
| 6    | 600       | 1311          |
| 7    | 700       | 1341          |



**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-76241

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
GMBU

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER:  
GREATER BOUNDARY 9-34-8-17

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4301332331

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

10. FIELD AND POOL, OR WILDCAT:  
GREATER MB UNIT

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 1894 FSL 727 FEL

COUNTY: DUCHESNE

OTR/OTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE, 34, T8S, R17E

STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION   | TYPE OF ACTION  |  |   |
|--|---|--|---|
| <input type="checkbox"/> NOTICE OF INTENT<br>(Submit in Duplicate)<br><br>Approximate date work will<br><br>                           | <input type="checkbox"/> ACIDIZE<br><input type="checkbox"/> ALTER CASING<br><input type="checkbox"/> CASING REPAIR<br><input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br><input type="checkbox"/> CHANGE TUBING<br><input type="checkbox"/> CHANGE WELL NAME<br><input type="checkbox"/> CHANGE WELL STATUS<br><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br><input type="checkbox"/> CONVERT WELL TYPE | <input type="checkbox"/> DEEPEN<br><input type="checkbox"/> FRACTURE TREAT<br><input type="checkbox"/> NEW CONSTRUCTION<br><input type="checkbox"/> OPERATOR CHANGE<br><input type="checkbox"/> PLUG AND ABANDON<br><input type="checkbox"/> PLUG BACK<br><input type="checkbox"/> PRODUCTION (START/STOP)<br><input type="checkbox"/> RECLAMATION OF WELL SITE<br><input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION | <input type="checkbox"/> REPERFORATE CURRENT FORMATION<br><input type="checkbox"/> SIDETRACK TO REPAIR WELL<br><input type="checkbox"/> TEMPORARITLY ABANDON<br><input type="checkbox"/> TUBING REPAIR<br><input type="checkbox"/> VENT OR FLAIR<br><input type="checkbox"/> WATER DISPOSAL<br><input type="checkbox"/> WATER SHUT-OFF<br><input checked="" type="checkbox"/> OTHER: - Step Rate Test |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT<br>(Submit Original Form Only)<br><br>Date of Work Completion:<br><br>10/19/2010 |   |  |   |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

A step rate test was conducted on the subject well on October 19, 2010. Results from the test indicate that the fracture gradient is 0.788 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed from 1255 psi to 1525 psi.

EPA: UT20702-06744 API: 43-013-32331

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Administrative Assistant

SIGNATURE

DATE 10/25/2010

(This space for State use only)

**RECEIVED**

**NOV 01 2010**

**DIV. OF OIL, GAS & MINING**

## Step Rate Test (SRT) Analysis

Date: 10/19/2010

Operator:

Newfield Production Company

Well:

Greater Boundary 9-34-8-17

Permit #:

UT20702-06744

**Enter the following data :**

|   |              |      |             |
|---|--------------|------|-------------|
| Specific Gravity (sg) of injectate =  | <u>1.015</u> | g/cc |             |
| Depth to top perforation (D) =  | <u>4382</u>  | feet | 4382        |
| Top of permitted injection zone depth (blank=use top perforation to calculate fg) = |              | feet |             |
| Estimated Formation Parting Pressure (P <sub>fp</sub> ) from SRT chart =            | <u>1525</u>  | psi  |             |
| Instantaneous Shut In Pressure (ISIP) from SRT =                                    | <u>1586</u>  | psi  | 1525        |
| Bottom Hole Parting Pressure (P <sub>bhp</sub> ) from downhole pressure recorder =  |              | psi  | no downhole |

### Part One - Calculation of Fracture Gradient (fg)

**Calculated Fracture Gradient =** 0.788 psi/ft.

where:  $fg = P_{bhp} / D$  (Note: this formula uses the downhole recorded bottom hole parting pressure if available) = 1586

D = depth used = 4382

P<sub>bhp</sub> used = 3451

**Calculated Bottom Hole Parting Pressure (P<sub>bhp</sub>) =** 3451 psi

3450.867

to calculate Bottom Hole Parting Pressure (P<sub>bhp</sub>) = Formation Fracture Pressure (ISIP or P<sub>fp</sub>) + (0.433 \* SG \* D)

(Uses lesser of ISIP or P<sub>fp</sub>) Value used = 1525

### Part Two - Calculation of Maximum Allowable Injection Pressure (MAIP)

**Maximum Allowable Injection Pressure (MAIP) =** 1525 psig

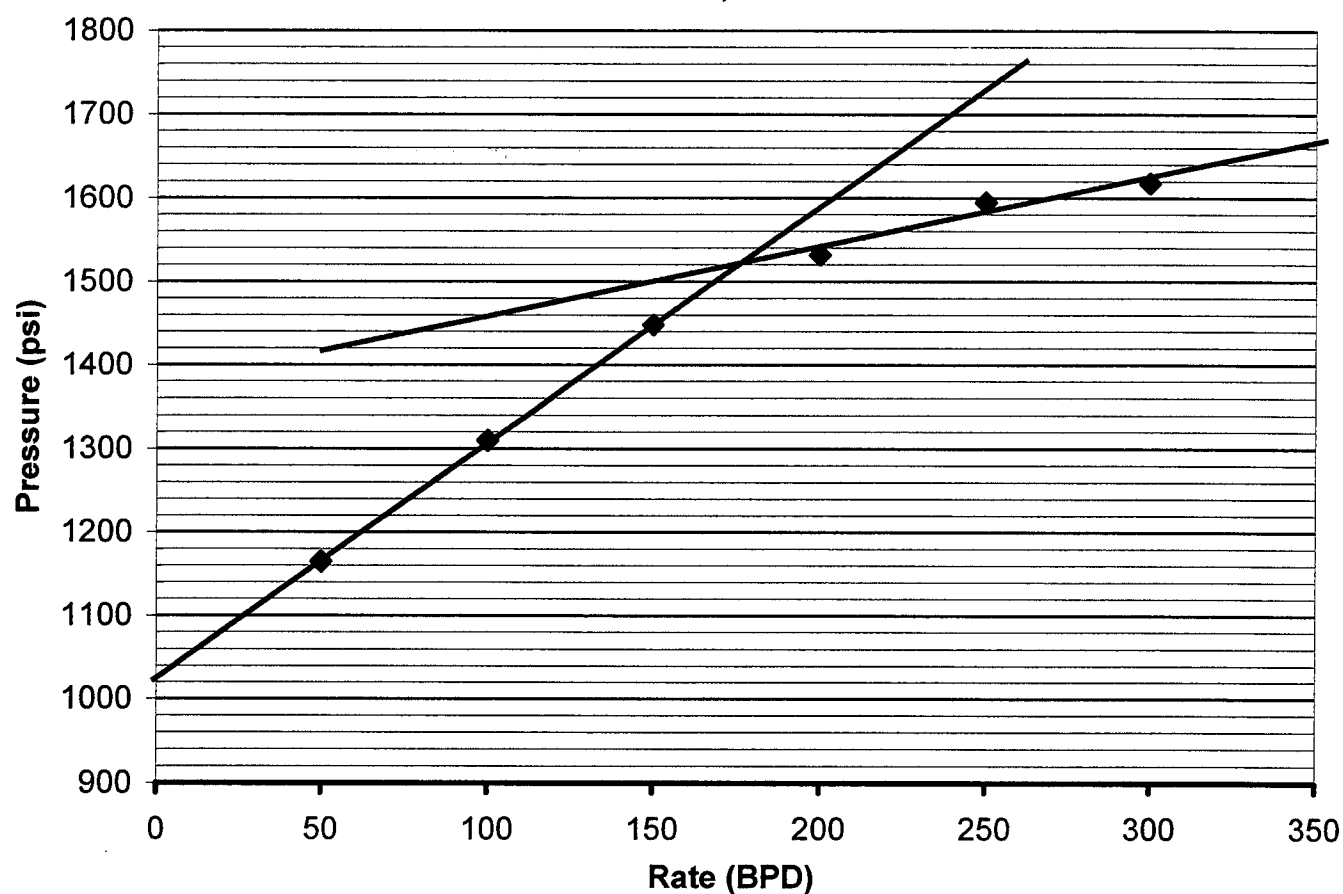
D = depth used = 4382

MAIP =  $[fg - (0.433 * SG)] * D$  = 1527.149

(rounded down to nearest 5 psig)

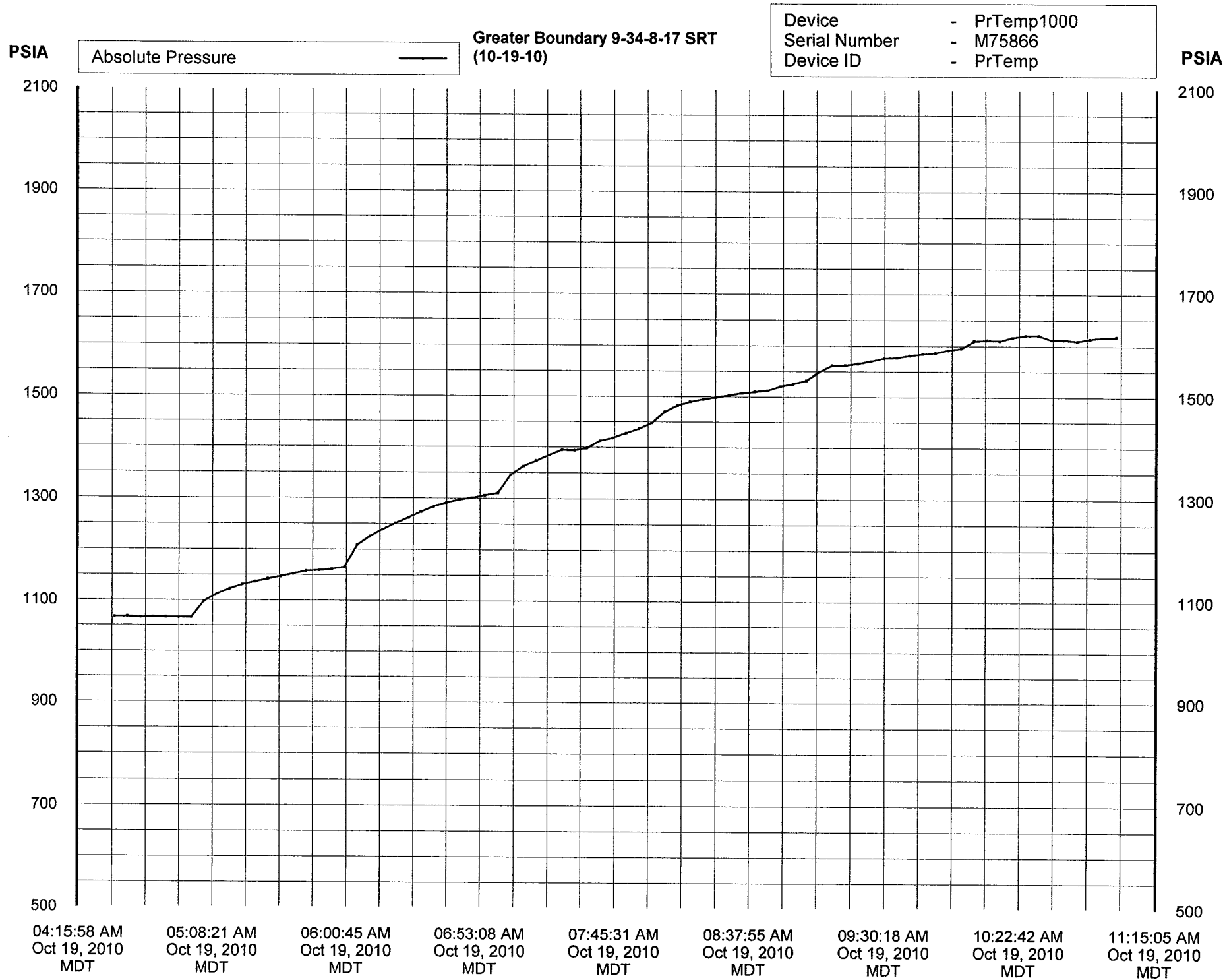


**Greater Boundary 9-34-8-17  
Greater Monument Butte Unit  
Step Rate Test  
October 19, 2010**



**Start Pressure:** 1066 psi  
**Instantaneous Shut In Pressure (ISIP):** 1586 psi  
**Top Perforation:** 4382 feet  
**Fracture pressure (Pfp):** 1525 psi  
**FG:** 0.788 psi/ft

| Step | Rate(bpd) | Pressure(psi) |
|------|-----------|---------------|
| 1    | 50        | 1165          |
| 2    | 100       | 1310          |
| 3    | 150       | 1448          |
| 4    | 200       | 1532          |
| 5    | 250       | 1595          |
| 6    | 300       | 1618          |



Report Name: PrTemp1000 Data Table  
 Report Date: Oct 19, 2010 01:41:27 PM MDT  
 File Name: C:\Program Files\PTC® Instruments 2.00\Greater Boundary 9-34-8-17 SRT (10-19-10).csv  
 Title: Greater Boundary 9-34-8-17 SRT (10-19-10)  
 Device: PrTemp1000 - Temperature and Pressure Recorder  
 Hardware Revision: REV2C (64K)  
 Serial Number: M75866  
 Device ID: PrTemp  
 Data Start Date: Oct 19, 2010 04:30:01 AM MDT  
 Data End Date: Oct 19, 2010 11:00:01 AM MDT  
 Reading Rate: 2 Seconds  
 Readings: 1 to 79 of 79  
 Last Calibration Date: May 22, 2009  
 Next Calibration Date: May 22, 2010

| <u>Reading</u> | <u>Date and Time (MDT)</u> | <u>Absolute Pressure</u> | <u>Annotation</u> |
|----------------|----------------------------|--------------------------|-------------------|
| 1              | Oct 19, 2010 04:30:01 AM   | 1067.200                 | PSIA              |
| 2              | Oct 19, 2010 04:35:00 AM   | 1067.600                 | PSIA              |
| 3              | Oct 19, 2010 04:40:01 AM   | 1066.000                 | PSIA              |
| 4              | Oct 19, 2010 04:44:59 AM   | 1067.000                 | PSIA              |
| 5              | Oct 19, 2010 04:50:00 AM   | 1066.400                 | PSIA              |
| 6              | Oct 19, 2010 04:55:00 AM   | 1066.000                 | PSIA              |
| 7              | Oct 19, 2010 05:00:01 AM   | 1066.000                 | PSIA              |
| 8              | Oct 19, 2010 05:05:01 AM   | 1097.400                 | PSIA              |
| 9              | Oct 19, 2010 05:10:01 AM   | 1112.600                 | PSIA              |
| 10             | Oct 19, 2010 05:15:01 AM   | 1122.000                 | PSIA              |
| 11             | Oct 19, 2010 05:19:59 AM   | 1131.000                 | PSIA              |
| 12             | Oct 19, 2010 05:25:00 AM   | 1136.600                 | PSIA              |
| 13             | Oct 19, 2010 05:30:00 AM   | 1142.000                 | PSIA              |
| 14             | Oct 19, 2010 05:35:01 AM   | 1147.000                 | PSIA              |
| 15             | Oct 19, 2010 05:40:00 AM   | 1152.000                 | PSIA              |
| 16             | Oct 19, 2010 05:45:01 AM   | 1157.600                 | PSIA              |
| 17             | Oct 19, 2010 05:50:01 AM   | 1159.000                 | PSIA              |
| 18             | Oct 19, 2010 05:55:01 AM   | 1161.400                 | PSIA              |
| 19             | Oct 19, 2010 06:00:01 AM   | 1165.400                 | PSIA              |
| 20             | Oct 19, 2010 06:05:00 AM   | 1208.000                 | PSIA              |
| 21             | Oct 19, 2010 06:10:01 AM   | 1225.000                 | PSIA              |
| 22             | Oct 19, 2010 06:15:00 AM   | 1239.000                 | PSIA              |
| 23             | Oct 19, 2010 06:20:01 AM   | 1250.600                 | PSIA              |
| 24             | Oct 19, 2010 06:25:00 AM   | 1261.800                 | PSIA              |
| 25             | Oct 19, 2010 06:30:00 AM   | 1273.200                 | PSIA              |
| 26             | Oct 19, 2010 06:35:00 AM   | 1283.800                 | PSIA              |
| 27             | Oct 19, 2010 06:40:01 AM   | 1291.200                 | PSIA              |
| 28             | Oct 19, 2010 06:45:00 AM   | 1296.400                 | PSIA              |
| 29             | Oct 19, 2010 06:50:00 AM   | 1300.600                 | PSIA              |
| 30             | Oct 19, 2010 06:55:01 AM   | 1305.400                 | PSIA              |
| 31             | Oct 19, 2010 07:00:00 AM   | 1309.800                 | PSIA              |
| 32             | Oct 19, 2010 07:05:00 AM   | 1345.800                 | PSIA              |
| 33             | Oct 19, 2010 07:10:00 AM   | 1362.200                 | PSIA              |
| 34             | Oct 19, 2010 07:15:00 AM   | 1373.000                 | PSIA              |
| 35             | Oct 19, 2010 07:20:01 AM   | 1384.200                 | PSIA              |
| 36             | Oct 19, 2010 07:25:01 AM   | 1394.600                 | PSIA              |
| 37             | Oct 19, 2010 07:30:01 AM   | 1393.800                 | PSIA              |
| 38             | Oct 19, 2010 07:35:00 AM   | 1398.400                 | PSIA              |
| 39             | Oct 19, 2010 07:40:00 AM   | 1412.400                 | PSIA              |
| 40             | Oct 19, 2010 07:45:00 AM   | 1418.200                 | PSIA              |
| 41             | Oct 19, 2010 07:50:01 AM   | 1427.600                 | PSIA              |
| 42             | Oct 19, 2010 07:55:00 AM   | 1436.200                 | PSIA              |
| 43             | Oct 19, 2010 08:00:01 AM   | 1447.600                 | PSIA              |
| 44             | Oct 19, 2010 08:05:01 AM   | 1469.800                 | PSIA              |
| 45             | Oct 19, 2010 08:10:08 AM   | 1482.200                 | PSIA              |
| 46             | Oct 19, 2010 08:15:01 AM   | 1489.800                 | PSIA              |
| 47             | Oct 19, 2010 08:20:00 AM   | 1495.000                 | PSIA              |
| 48             | Oct 19, 2010 08:25:00 AM   | 1498.600                 | PSIA              |
| 49             | Oct 19, 2010 08:30:03 AM   | 1503.000                 | PSIA              |
| 50             | Oct 19, 2010 08:35:01 AM   | 1506.800                 | PSIA              |
| 51             | Oct 19, 2010 08:40:00 AM   | 1509.800                 | PSIA              |
| 52             | Oct 19, 2010 08:45:01 AM   | 1512.200                 | PSIA              |
| 53             | Oct 19, 2010 08:50:01 AM   | 1520.200                 | PSIA              |
| 54             | Oct 19, 2010 08:55:01 AM   | 1525.600                 | PSIA              |
| 55             | Oct 19, 2010 09:00:00 AM   | 1531.800                 | PSIA              |
| 56             | Oct 19, 2010 09:05:00 AM   | 1549.400                 | PSIA              |
| 57             | Oct 19, 2010 09:10:01 AM   | 1561.600                 | PSIA              |
| 58             | Oct 19, 2010 09:15:00 AM   | 1561.800                 | PSIA              |
| 59             | Oct 19, 2010 09:20:01 AM   | 1565.000                 | PSIA              |

|    |                          |          |      |
|----|--------------------------|----------|------|
| 60 | Oct 19, 2010 09:25:00 AM | 1570.200 | PSIA |
| 61 | Oct 19, 2010 09:30:01 AM | 1575.800 | PSIA |
| 62 | Oct 19, 2010 09:35:01 AM | 1577.000 | PSIA |
| 63 | Oct 19, 2010 09:40:01 AM | 1581.400 | PSIA |
| 64 | Oct 19, 2010 09:45:01 AM | 1584.400 | PSIA |
| 65 | Oct 19, 2010 09:50:00 AM | 1586.600 | PSIA |
| 66 | Oct 19, 2010 09:55:01 AM | 1592.000 | PSIA |
| 67 | Oct 19, 2010 10:00:00 AM | 1595.200 | PSIA |
| 68 | Oct 19, 2010 10:05:01 AM | 1609.800 | PSIA |
| 69 | Oct 19, 2010 10:09:59 AM | 1611.400 | PSIA |
| 70 | Oct 19, 2010 10:15:01 AM | 1610.000 | PSIA |
| 71 | Oct 19, 2010 10:20:01 AM | 1616.600 | PSIA |
| 72 | Oct 19, 2010 10:25:01 AM | 1620.800 | PSIA |
| 73 | Oct 19, 2010 10:30:01 AM | 1620.800 | PSIA |
| 74 | Oct 19, 2010 10:35:06 AM | 1612.200 | PSIA |
| 75 | Oct 19, 2010 10:40:01 AM | 1612.400 | PSIA |
| 76 | Oct 19, 2010 10:45:00 AM | 1609.800 | PSIA |
| 77 | Oct 19, 2010 10:50:01 AM | 1614.000 | PSIA |
| 78 | Oct 19, 2010 10:55:00 AM | 1617.000 | PSIA |
| 79 | Oct 19, 2010 11:00:01 AM | 1618.000 | PSIA |

PSIA

Absolute Pressure

Greater Boundary 9-34-8-17 ISIP  
(10-19-10)

Device - PrTemp1000  
Serial Number - M75866  
Device ID - PrTemp

PSIA

1900

1800

1700

1600

1500

1400

1300

1200

1900

1800

1700

1600

1500

1400

1300

1200

10:58:11 AM  
Oct 19, 2010  
MDT

11:03:03 AM  
Oct 19, 2010  
MDT

11:07:56 AM  
Oct 19, 2010  
MDT

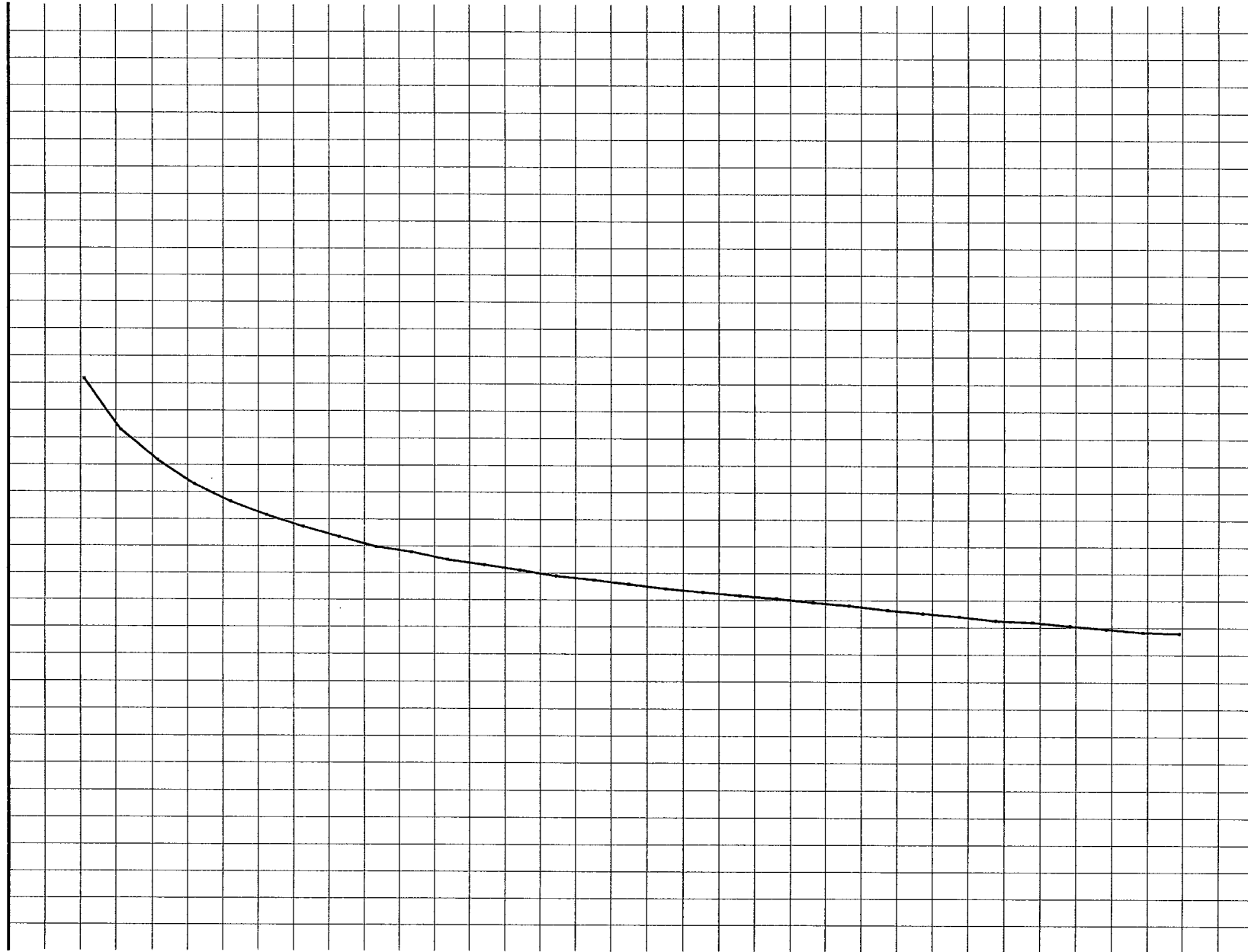
11:12:48 AM  
Oct 19, 2010  
MDT

11:17:40 AM  
Oct 19, 2010  
MDT

11:22:32 AM  
Oct 19, 2010  
MDT

11:27:25 AM  
Oct 19, 2010  
MDT

11:32:17 AM  
Oct 19, 2010  
MDT



Report Name: PrTemp1000 Data Table  
 Report Date: Oct 19, 2010 01:41:20 PM MDT  
 File Name: C:\Program Files\PTC® Instruments 2.00\Greater Boundary 9-34-8-17 ISIP (10-19-10).csv  
 Title: Greater Boundary 9-34-8-17 ISIP (10-19-10)  
 Device: PrTemp1000 - Temperature and Pressure Recorder  
 Hardware Revision: REV2C (64K)  
 Serial Number: M75866  
 Device ID: PrTemp  
 Data Start Date: Oct 19, 2010 11:00:14 AM MDT  
 Data End Date: Oct 19, 2010 11:30:15 AM MDT  
 Reading Rate: 2 Seconds  
 Readings: 1 to 31 of 31  
 Last Calibration Date: May 22, 2009  
 Next Calibration Date: May 22, 2010

| <u>Reading</u> | <u>Date and Time (MDT)</u> | <u>Absolute Pressure</u> | <u>Annotation</u> |
|----------------|----------------------------|--------------------------|-------------------|
| 1              | Oct 19, 2010 11:00:14 AM   | 1623.200                 | PSIA              |
| 2              | Oct 19, 2010 11:01:14 AM   | 1585.800                 | PSIA              |
| 3              | Oct 19, 2010 11:02:14 AM   | 1563.400                 | PSIA              |
| 4              | Oct 19, 2010 11:03:14 AM   | 1545.800                 | PSIA              |
| 5              | Oct 19, 2010 11:04:14 AM   | 1533.000                 | PSIA              |
| 6              | Oct 19, 2010 11:05:14 AM   | 1523.000                 | PSIA              |
| 7              | Oct 19, 2010 11:06:14 AM   | 1514.400                 | PSIA              |
| 8              | Oct 19, 2010 11:07:14 AM   | 1506.800                 | PSIA              |
| 9              | Oct 19, 2010 11:08:15 AM   | 1499.400                 | PSIA              |
| 10             | Oct 19, 2010 11:09:14 AM   | 1495.400                 | PSIA              |
| 11             | Oct 19, 2010 11:10:14 AM   | 1489.800                 | PSIA              |
| 12             | Oct 19, 2010 11:11:15 AM   | 1486.000                 | PSIA              |
| 13             | Oct 19, 2010 11:12:14 AM   | 1482.000                 | PSIA              |
| 14             | Oct 19, 2010 11:13:14 AM   | 1477.800                 | PSIA              |
| 15             | Oct 19, 2010 11:14:17 AM   | 1474.800                 | PSIA              |
| 16             | Oct 19, 2010 11:15:13 AM   | 1471.800                 | PSIA              |
| 17             | Oct 19, 2010 11:16:14 AM   | 1468.400                 | PSIA              |
| 18             | Oct 19, 2010 11:17:14 AM   | 1465.800                 | PSIA              |
| 19             | Oct 19, 2010 11:18:14 AM   | 1463.400                 | PSIA              |
| 20             | Oct 19, 2010 11:19:14 AM   | 1461.200                 | PSIA              |
| 21             | Oct 19, 2010 11:20:14 AM   | 1458.400                 | PSIA              |
| 22             | Oct 19, 2010 11:21:14 AM   | 1456.000                 | PSIA              |
| 23             | Oct 19, 2010 11:22:17 AM   | 1452.800                 | PSIA              |
| 24             | Oct 19, 2010 11:23:15 AM   | 1450.400                 | PSIA              |
| 25             | Oct 19, 2010 11:24:15 AM   | 1448.000                 | PSIA              |
| 26             | Oct 19, 2010 11:25:14 AM   | 1445.000                 | PSIA              |
| 27             | Oct 19, 2010 11:26:14 AM   | 1443.800                 | PSIA              |
| 28             | Oct 19, 2010 11:27:15 AM   | 1441.200                 | PSIA              |
| 29             | Oct 19, 2010 11:28:14 AM   | 1439.000                 | PSIA              |
| 30             | Oct 19, 2010 11:29:14 AM   | 1436.600                 | PSIA              |
| 31             | Oct 19, 2010 11:30:15 AM   | 1435.800                 | PSIA              |

# Greater Boundary 9-34-8-17 Rate Sheet (10-19-10)

|                 |       |       |       |       |       |       |       |
|-----------------|-------|-------|-------|-------|-------|-------|-------|
| <i>Step # 1</i> | Time: | 5:05  | 5:10  | 5:15  | 5:20  | 5:25  | 5:30  |
|                 | Rate: | 50.3  | 50.3  | 50.2  | 50.2  | 50.2  | 50.2  |
|                 | Time: | 5:35  | 5:40  | 5:45  | 5:50  | 5:55  | 6:00  |
|                 | Rate: | 50.2  | 50.2  | 50.2  | 50.1  | 50.1  | 50    |
| <i>Step # 2</i> | Time: | 6:05  | 6:10  | 6:15  | 6:20  | 6:25  | 6:30  |
|                 | Rate: | 100.6 | 100.6 | 100.6 | 100.6 | 100.5 | 100.5 |
|                 | Time: | 6:35  | 6:40  | 6:45  | 6:50  | 6:55  | 7:00  |
|                 | Rate: | 100.4 | 100.4 | 100.4 | 100.3 | 100.3 | 100.3 |
| <i>Step # 3</i> | Time: | 7:05  | 7:10  | 7:15  | 7:20  | 7:25  | 7:30  |
|                 | Rate: | 150.6 | 150.6 | 150.5 | 150.5 | 150.5 | 150.4 |
|                 | Time: | 7:35  | 7:40  | 7:45  | 7:50  | 7:55  | 8:00  |
|                 | Rate: | 150.4 | 150.4 | 150.3 | 150.3 | 150.3 | 150.3 |
| <i>Step # 4</i> | Time: | 8:05  | 8:10  | 8:15  | 8:20  | 8:25  | 8:30  |
|                 | Rate: | 200.4 | 200.4 | 200.4 | 200.3 | 200.3 | 200.3 |
|                 | Time: | 8:35  | 8:40  | 8:45  | 8:50  | 8:55  | 9:00  |
|                 | Rate: | 200.3 | 200.3 | 200.2 | 200.2 | 200.2 | 200.1 |
| <i>Step # 5</i> | Time: | 9:05  | 9:10  | 9:15  | 9:20  | 9:25  | 9:30  |
|                 | Rate: | 250.5 | 250.5 | 250.5 | 250.5 | 250.4 | 250.4 |
|                 | Time: | 9:35  | 9:40  | 9:45  | 9:50  | 9:55  | 10:00 |
|                 | Rate: | 250.4 | 250.3 | 250.3 | 250.3 | 250.3 | 250.2 |
| <i>Step # 6</i> | Time: | 10:05 | 10:10 | 10:15 | 10:20 | 10:25 | 10:30 |
|                 | Rate: | 300.5 | 300.5 | 300.3 | 300.3 | 300.3 | 300.3 |
|                 | Time: | 10:35 | 10:40 | 10:45 | 10:50 | 10:55 | 11:00 |
|                 | Rate: | 300.3 | 300.3 | 300.2 | 300.2 | 300.2 | 300.1 |
|                 | Time: |       |       |       |       |       |       |
|                 | Rate: |       |       |       |       |       |       |
|                 | Time: |       |       |       |       |       |       |
|                 | Rate: |       |       |       |       |       |       |
|                 | Time: |       |       |       |       |       |       |
|                 | Rate: |       |       |       |       |       |       |
|                 | Time: |       |       |       |       |       |       |
|                 | Rate: |       |       |       |       |       |       |

|  |  |   |
|--|--|---|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  |  | <b>FORM 9</b>   |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. |  | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>UTU-76241 |
| <b>1. TYPE OF WELL</b><br>Water Injection Well   |  | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>                |
| <b>2. NAME OF OPERATOR:</b><br>NEWFIELD PRODUCTION COMPANY   |  | <b>7. UNIT or CA AGREEMENT NAME:</b><br>GMBU (GRRV)         |
| <b>3. ADDRESS OF OPERATOR:</b><br>Rt 3 Box 3630 , Myton, UT, 84052   |  | <b>8. WELL NAME and NUMBER:</b><br>GB 9-34-8-17             |
| <b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b><br>1894 FSL 0727 FEL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: NESE Section: 34 Township: 08.0S Range: 17.0E Meridian: S  |  | <b>9. API NUMBER:</b><br>43013323310000                     |
| <b>PHONE NUMBER:</b><br>435 646-4825 Ext   |  | <b>9. FIELD and POOL or WILDCAT:</b><br>MONUMENT BUTTE      |
| <b>COUNTY:</b><br>DUCHESNE   |  | <b>STATE:</b><br>UTAH                                       |

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION  | TYPE OF ACTION  |   |  |
|---|---|---|--|
| <input type="checkbox"/> NOTICE OF INTENT<br>Approximate date work will start:                  | <input type="checkbox"/> ACIDIZE<br><input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br><input type="checkbox"/> CHANGE WELL STATUS<br><input type="checkbox"/> DEEPEN<br><input type="checkbox"/> OPERATOR CHANGE<br><input type="checkbox"/> PRODUCTION START OR RESUME<br><input type="checkbox"/> REPERFORATE CURRENT FORMATION<br><input type="checkbox"/> TUBING REPAIR<br><input type="checkbox"/> WATER SHUTOFF<br><input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> ALTER CASING<br><input type="checkbox"/> CHANGE TUBING<br><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br><input type="checkbox"/> FRACTURE TREAT<br><input type="checkbox"/> PLUG AND ABANDON<br><input type="checkbox"/> RECLAMATION OF WELL SITE<br><input type="checkbox"/> SIDETRACK TO REPAIR WELL<br><input type="checkbox"/> VENT OR FLARE<br><input type="checkbox"/> SI TA STATUS EXTENSION | <input type="checkbox"/> CASING REPAIR<br><input type="checkbox"/> CHANGE WELL NAME<br><input type="checkbox"/> CONVERT WELL TYPE<br><input type="checkbox"/> NEW CONSTRUCTION<br><input type="checkbox"/> PLUG BACK<br><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br><input type="checkbox"/> TEMPORARY ABANDON<br><input type="checkbox"/> WATER DISPOSAL<br><input type="checkbox"/> APD EXTENSION |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT<br>Date of Work Completion:<br>12/22/2011 |   |   |  |
| <input type="checkbox"/> SPUD REPORT<br>Date of Spud:   |   |   |  |
| <input type="checkbox"/> DRILLING REPORT<br>Report Date:  |   |   |  |
|   | <input checked="" type="checkbox"/> OTHER   |   | OTHER: <span style="border: 1px solid black; padding: 2px;">5 YR MIT</span>  |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
  
 On 11/16/2011 Nathan Wiser with the EPA was contacted concerning the 5 year MIT on the above listed well. On 12/22/2011 the casing was pressured up to 1175 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 1416 psig during the test. There was not an EPA representative available to witness the test.  
 EPA# UT20702-06744

Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
**FOR RECORD ONLY**  
 01/04/2012

|   |                                     |   |
|---|-------------------------------------|---|
| <b>NAME (PLEASE PRINT)</b><br>Lucy Chavez-Naupoto | <b>PHONE NUMBER</b><br>435 646-4874 | <b>TITLE</b><br>Water Services Technician |
| <b>SIGNATURE</b><br>N/A                           | <b>DATE</b><br>1/4/2012             |   |



# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 12 / 22 / 11  
Test conducted by: Lynn Monson  
Others present: \_\_\_\_\_

|  |                                   |                  |
|--|-----------------------------------|------------------|
| Well Name: <u>Greater Boundary 9-34-8-17</u>   | Type: ER SWD                      | Status: AC TA UC |
| Field: <u>Monument Butte</u>   |                                   |                  |
| Location: <u>NE/SE</u> Sec: <u>34</u> T <u>8</u> N <u>(S)</u> R <u>17(E)</u> W County: <u>Duchess</u> State: <u>UT</u> |                                   |                  |
| Operator: <u>New Field</u>   |                                   |                  |
| Last MIT: <u>/</u> <u>/</u>  | Maximum Allowable Pressure: _____ | PSIG             |

Is this a regularly scheduled test? ☒ Yes ☐ No  
Initial test for permit? ☐ Yes ☒ No  
Test after well rework? ☐ Yes ☒ No  
Well injecting during test? ☐ Yes ☒ No If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: 0 psig

| MIT DATA TABLE         | Test #1  | Test #2   | Test #3   |
|------------------------|--|---|---|
| <b>TUBING</b>          | <b>PRESSURE</b>  |   |   |
| Initial Pressure       | <u>1418</u> psig   | psig  | psig  |
| End of test pressure   | <u>1416</u> psig   | psig  | psig  |
| <b>CASING / TUBING</b> | <b>ANNULUS PRESSURE</b>  |   |   |
| 0 minutes              | <u>1170</u> psig   | psig  | psig  |
| 5 minutes              | <u>1175</u> psig   | psig  | psig  |
| 10 minutes             | <u>1175</u> psig   | psig  | psig  |
| 15 minutes             | <u>1175</u> psig   | psig  | psig  |
| 20 minutes             | <u>1175</u> psig   | psig  | psig  |
| 25 minutes             | <u>1175</u> psig   | psig  | psig  |
| 30 minutes             | <u>1175</u> psig   | psig  | psig  |
| _____ minutes          | psig   | psig  | psig  |
| _____ minutes          | psig   | psig  | psig  |
| <b>RESULT</b>          | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail | <input type="checkbox"/> Pass <input type="checkbox"/> Fail | <input type="checkbox"/> Pass <input type="checkbox"/> Fail |

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

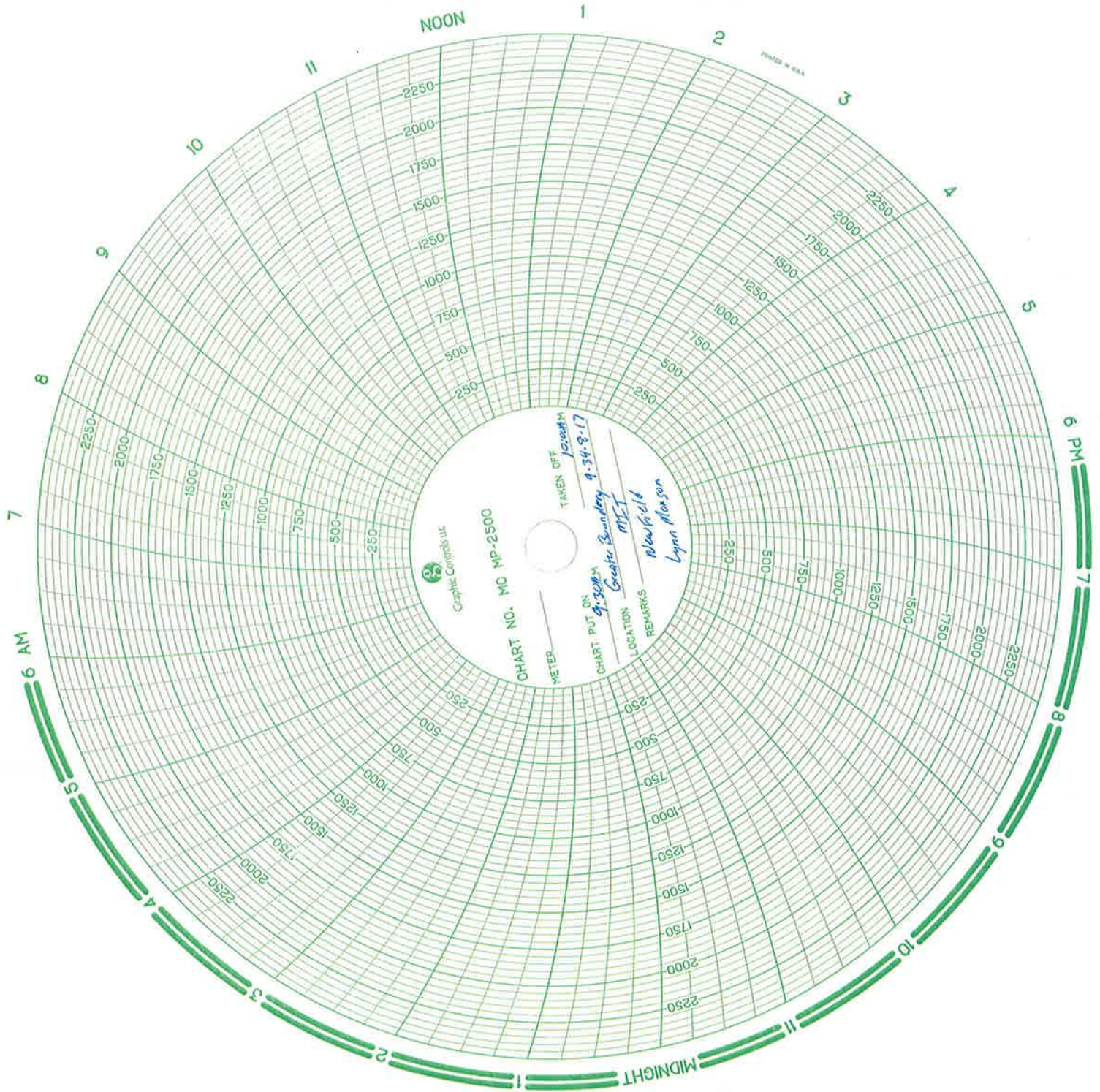
## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_

**RECEIVED** Jan. 04, 2012





# Greater Boundary 9-34-8-17

Spud Date: 5/11/2004  
Put on Production: 6/2/2004  
GL: 5050' KB: 5062'

Initial Production: 39 BOPD,  
83 MCFD, 4 BWPD

## SURFACE CASING

CSG SIZE: 8 5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 js (301')  
DEPTH LANDED: 313' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 150 sxs Class "G" cmt, est 4 bbls cmt to surf.

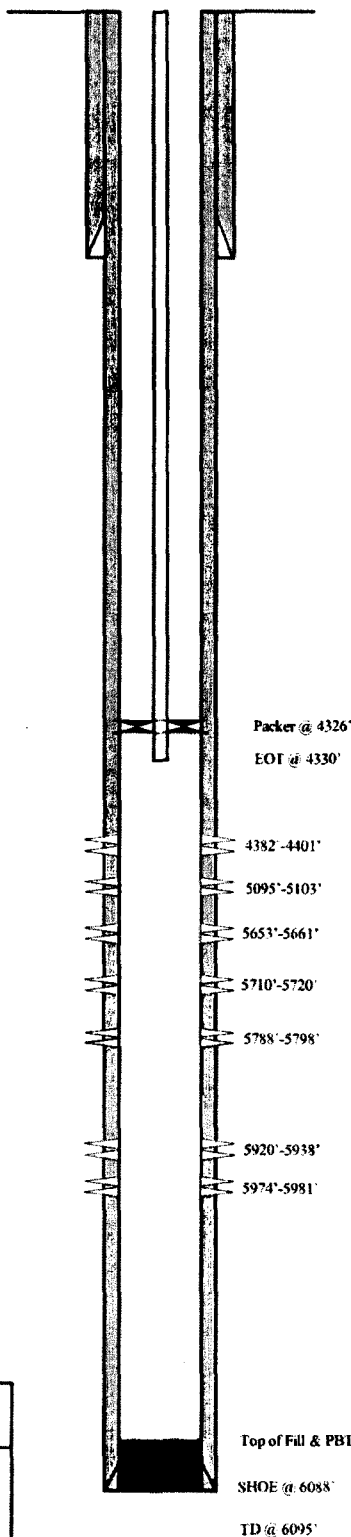
## PRODUCTION CASING

CSG SIZE: 5 1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 143 js (6089')  
DEPTH LANDED: 6087' KB  
HOLE SIZE: 7 7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP AT: 2 per CBL

## TUBING

SIZE/GRADE/WT.: 2 7/8" / J-55 / 6.5#  
NO. OF JOINTS: 137 js (4309.53')  
SEATING NIPPLE: 2 7/8" (1.10')  
SN LANDED AT: 4321.53' KB  
TOTAL STRING LENGTH: EOT @ 4329.98' KB

## Injection Wellbore Diagram



## FRAC JOB

5/26/2004 5920'-5981' **Frac CP sand as follows:**  
64,642# 20/40 sand in 528 bbls Lightning 17 fluid. Treated @ avg press of 1778 psi w/avg rate of 24.8 BPM. ISIP 2280 psi. Calc flush: 5920 gal. Actual flush: 5922 gal.

5/27/2004 5653'-5798' **Frac CP sand as follows:**  
49,946# 20/40 sand in 436 bbls Lightning 17 fluid. Treated @ avg press of 1338 psi w/avg rate of 24.8 BPM. ISIP 1560 psi. Calc flush: 5653 gal. Actual flush: 5628 gal.

5/27/2004 5095'-5103' **Frac B.S. sand as follows:**  
19,329# 20/40 sand in 254 bbls Lightning 17 fluid. Treated @ avg press of 1601 psi w/avg rate of 24.8 BPM. ISIP 1800 psi. Calc flush: 5095 gal. Actual flush: 5082 gal.

5/27/2004 4382'-4401' **Frac CB 4 sand as follows:**  
41,286# 20/40 sand in 368 bbls Lightning 17 fluid. Treated @ avg press of 1830 psi w/avg rate of 24.7 BPM. ISIP 2015 psi. Calc flush: 4382 gal. Actual flush: 4284 gal.

1/25/07 **Well converted to an Injection well. MIT completed and submitted on 2/15/07.**

## PERFORATION RECORD

5/25/2004 5920'-5938' 4 JSFP 72 holes  
5/25/2004 5974'-5981' 4 JSFP 28 holes  
5/26/2004 5788'-5798' 4 JSFP 40 holes  
5/26/2004 5710'-5720' 4 JSFP 40 holes  
5/26/2004 5653'-5661' 4 JSFP 32 holes  
5/27/2004 5095'-5103' 4 JSFP 32 holes  
5/27/2004 4382'-4401' 4 JSFP 76 holes

**NEWFIELD**

**Greater Boundary 9-34-8-17**

1894' FSL & 727' FEL

NE/SE Section 34-T8S-R17E

Duchesne Co. Utah

API #43-013-32331; Lease #UTU-76241

| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  |   | <b>FORM 9</b>  |   |                |  |  |  |   |  |   |   |  |  |  |   |  |  |  |  |  |  |  |
|--|---|--|---|----------------|--|--|--|---|--|---|---|--|--|--|---|--|--|--|--|--|--|--|
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.   |   | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>UTU-76241  |   |                |  |  |  |   |  |   |   |  |  |  |   |  |  |  |  |  |  |  |
| <b>1. TYPE OF WELL</b><br>Water Injection Well   |   | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b><br><br><b>7. UNIT or CA AGREEMENT NAME:</b><br>GMBU (GRRV)  |   |                |  |  |  |   |  |   |   |  |  |  |   |  |  |  |  |  |  |  |
| <b>2. NAME OF OPERATOR:</b><br>NEWFIELD PRODUCTION COMPANY   |   | <b>8. WELL NAME and NUMBER:</b><br>GB 9-34-8-17  |   |                |  |  |  |   |  |   |   |  |  |  |   |  |  |  |  |  |  |  |
| <b>3. ADDRESS OF OPERATOR:</b><br>Rt 3 Box 3630 , Myton, UT, 84052   |   | <b>9. API NUMBER:</b><br>43013323310000  |   |                |  |  |  |   |  |   |   |  |  |  |   |  |  |  |  |  |  |  |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>1894 FSL 0727 FEL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: NESE Section: 34 Township: 08.0S Range: 17.0E Meridian: S  |   | <b>9. FIELD and POOL or WILDCAT:</b><br>MONUMENT BUTTE   |   |                |  |  |  |   |  |   |   |  |  |  |   |  |  |  |  |  |  |  |
| <b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>   |   | <b>COUNTY:</b><br>DUCHESNE   |   |                |  |  |  |   |  |   |   |  |  |  |   |  |  |  |  |  |  |  |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">TYPE OF SUBMISSION</th> <th colspan="3">TYPE OF ACTION</th> </tr> </thead> <tbody> <tr> <td style="vertical-align: top;"> <input type="checkbox"/> NOTICE OF INTENT<br/>           Approximate date work will start:         </td> <td style="vertical-align: top;"> <input type="checkbox"/> ACIDIZE<br/><br/> <input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br/><br/> <input type="checkbox"/> CHANGE WELL STATUS<br/><br/> <input type="checkbox"/> DEEPEN<br/><br/> <input type="checkbox"/> OPERATOR CHANGE<br/><br/> <input type="checkbox"/> PRODUCTION START OR RESUME<br/><br/> <input type="checkbox"/> REPERFORATE CURRENT FORMATION<br/><br/> <input type="checkbox"/> TUBING REPAIR<br/><br/> <input type="checkbox"/> WATER SHUTOFF<br/><br/> <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="vertical-align: top;"> <input type="checkbox"/> ALTER CASING<br/><br/> <input type="checkbox"/> CHANGE TUBING<br/><br/> <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br/><br/> <input type="checkbox"/> FRACTURE TREAT<br/><br/> <input type="checkbox"/> PLUG AND ABANDON<br/><br/> <input type="checkbox"/> RECLAMATION OF WELL SITE<br/><br/> <input type="checkbox"/> SIDETRACK TO REPAIR WELL<br/><br/> <input type="checkbox"/> VENT OR FLARE<br/><br/> <input type="checkbox"/> SI TA STATUS EXTENSION<br/><br/> <input checked="" type="checkbox"/> OTHER         </td> <td style="vertical-align: top;"> <input type="checkbox"/> CASING REPAIR<br/><br/> <input type="checkbox"/> CHANGE WELL NAME<br/><br/> <input type="checkbox"/> CONVERT WELL TYPE<br/><br/> <input type="checkbox"/> NEW CONSTRUCTION<br/><br/> <input type="checkbox"/> PLUG BACK<br/><br/> <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br/><br/> <input type="checkbox"/> TEMPORARY ABANDON<br/><br/> <input type="checkbox"/> WATER DISPOSAL<br/><br/> <input type="checkbox"/> APD EXTENSION<br/><br/>           OTHER: <input style="width: 100px;" type="text" value="MIT"/> </td> </tr> <tr> <td style="vertical-align: top;"> <input checked="" type="checkbox"/> SUBSEQUENT REPORT<br/>           Date of Work Completion:<br/>           10/10/2016         </td> <td colspan="3"></td> </tr> <tr> <td style="vertical-align: top;"> <input type="checkbox"/> SPUD REPORT<br/>           Date of Spud:         </td> <td colspan="3"></td> </tr> <tr> <td style="vertical-align: top;"> <input type="checkbox"/> DRILLING REPORT<br/>           Report Date:         </td> <td colspan="3"></td> </tr> </tbody> </table> |   |  | TYPE OF SUBMISSION  | TYPE OF ACTION |  |  | <input type="checkbox"/> NOTICE OF INTENT<br>Approximate date work will start: | <input type="checkbox"/> ACIDIZE<br><br><input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br><br><input type="checkbox"/> CHANGE WELL STATUS<br><br><input type="checkbox"/> DEEPEN<br><br><input type="checkbox"/> OPERATOR CHANGE<br><br><input type="checkbox"/> PRODUCTION START OR RESUME<br><br><input type="checkbox"/> REPERFORATE CURRENT FORMATION<br><br><input type="checkbox"/> TUBING REPAIR<br><br><input type="checkbox"/> WATER SHUTOFF<br><br><input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> ALTER CASING<br><br><input type="checkbox"/> CHANGE TUBING<br><br><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br><br><input type="checkbox"/> FRACTURE TREAT<br><br><input type="checkbox"/> PLUG AND ABANDON<br><br><input type="checkbox"/> RECLAMATION OF WELL SITE<br><br><input type="checkbox"/> SIDETRACK TO REPAIR WELL<br><br><input type="checkbox"/> VENT OR FLARE<br><br><input type="checkbox"/> SI TA STATUS EXTENSION<br><br><input checked="" type="checkbox"/> OTHER | <input type="checkbox"/> CASING REPAIR<br><br><input type="checkbox"/> CHANGE WELL NAME<br><br><input type="checkbox"/> CONVERT WELL TYPE<br><br><input type="checkbox"/> NEW CONSTRUCTION<br><br><input type="checkbox"/> PLUG BACK<br><br><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br><br><input type="checkbox"/> TEMPORARY ABANDON<br><br><input type="checkbox"/> WATER DISPOSAL<br><br><input type="checkbox"/> APD EXTENSION<br><br>OTHER: <input style="width: 100px;" type="text" value="MIT"/> | <input checked="" type="checkbox"/> SUBSEQUENT REPORT<br>Date of Work Completion:<br>10/10/2016 |  |  |  | <input type="checkbox"/> SPUD REPORT<br>Date of Spud: |  |  |  | <input type="checkbox"/> DRILLING REPORT<br>Report Date: |  |  |  |
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| <input type="checkbox"/> DRILLING REPORT<br>Report Date:   |   |  |   |                |  |  |  |   |  |   |   |  |  |  |   |  |  |  |  |  |  |  |
| <b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b><br><br>Newfield is requesting permission to temporarily abandon the subject well. An MIT was performed on 10/10/2016 the csg was pressured up to 1367 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 917 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-06744  |   |  |   |                |  |  |  |   |  |   |   |  |  |  |   |  |  |  |  |  |  |  |
| <b>Accepted by the<br/>         Utah Division of<br/>         Oil, Gas and Mining<br/>         FOR RECORD ONLY<br/>         October 31, 2016</b>   |   |  |   |                |  |  |  |   |  |   |   |  |  |  |   |  |  |  |  |  |  |  |
| <b>NAME (PLEASE PRINT)</b><br>Lucy Chavez-Naupoto  | <b>PHONE NUMBER</b><br>435 646-4874   | <b>TITLE</b><br>Water Services Technician  |   |                |  |  |  |   |  |   |   |  |  |  |   |  |  |  |  |  |  |  |
| <b>SIGNATURE</b><br>N/A  | <b>DATE</b><br>10/11/2016   |  |   |                |  |  |  |   |  |   |   |  |  |  |   |  |  |  |  |  |  |  |



# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2465

EPA Witness: \_\_\_\_\_

Date: 10/10/16Test conducted by: Riley Bagley

Others present: \_\_\_\_\_

|   |   |                  |
|---|---|------------------|
| Well Name: <u>Greater Boudry</u>  | Type: ER SWD                            | Status: AC TA UC |
| Field: <u>Monument Butte</u>  |   |                  |
| Location: <u>9</u> Sec: <u>34</u> T <u>8</u> N/S R <u>17</u> E/W County: <u>Duchez</u> State: <u>UT</u> |   |                  |
| Operator: <u>Hol Richy</u>  |   |                  |
| Last MIT: <u>1</u> / <u>1</u>   | Maximum Allowable Pressure: <u>1317</u> | PSIG             |

Is this a regularly scheduled test?

☒ Yes ☐ No

Initial test for permit?

☐ Yes ☒ No

Test after well rework?

☐ Yes ☒ No

Well injecting during test?

☐ Yes ☒ No

If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: 1370 / 9/17 psig

| MIT DATA TABLE       |  | Test #1                       | Test #2                       | Test #3                       |
|----------------------|--|-------------------------------|-------------------------------|-------------------------------|
| <b>TUBING</b>        |  | <b>PRESSURE</b>               |                               |                               |
| Initial Pressure     | <u>9/17</u>                              | psig                          | psig                          | psig                          |
| End of test pressure | <u>9/17</u>                              | psig                          | psig                          | psig                          |
| <b>CASING/TUBING</b> |  | <b>ANNULUS PRESSURE</b>       |                               |                               |
| 0 minutes            | <u>1370</u>                              | psig                          | psig                          | psig                          |
| 5 minutes            | <u>1369</u>                              | psig                          | psig                          | psig                          |
| 10 minutes           | <u>1369</u>                              | psig                          | psig                          | psig                          |
| 15 minutes           | <u>1368</u>                              | psig                          | psig                          | psig                          |
| 20 minutes           | <u>1368</u>                              | psig                          | psig                          | psig                          |
| 25 minutes           | <u>1368</u>                              | psig                          | psig                          | psig                          |
| 30 minutes           | <u>1367</u>                              | psig                          | psig                          | psig                          |
| _____ minutes        |  | psig                          | psig                          | psig                          |
| _____ minutes        |  | psig                          | psig                          | psig                          |
| RESULT               | <input checked="" type="checkbox"/> Pass | <input type="checkbox"/> Fail | <input type="checkbox"/> Pass | <input type="checkbox"/> Fail |

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_

Greater Boundary 9-34-8-17 (5 year MIT 10/10/16)

10/10/2016 11:17:44 AM

